# E1400132 LHO CO2P Install List March 21, 2014

COLOR CODE - dates correspond to when this was verified
Does not exist and should
Not installed
Installed but issues remain
Deliberately installed contrary to design - design or install will change
Installed correctly - no issues
Couldn't figure out status
Now defunct - added for completeness

## CO2P LLO

1 Power meter Power meter - not installed 2 QPD1 QPD not installed 3 QPD2 QPD2 not installed 4 PD1 cable - NC to PD PD1 not installed 5 PD2 cable - NC to PD PD2 not installed 6 Thermopile - Thermopile connected - Feb 28 7 PZT - PZT connected - Feb 28 ISS analogue out to ADC: ontable - ISS analogue out - on-table NC - gender changer with longer ones 9 ISS analogue out to ADC - connected, Feb 28 ISS analogue out to ADC - connected, Feb 28 ISS analogue out to ADC - connected, Feb 28 ISS analogue out to ADC - ontable connected ISS analogue in from DAC - ontable connected used short 0.16" hex nut	Cables	X-arm	Y-arm	I
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ISS analogue in from DAC - ontable connected   ISS analogue in from DAC - pulsed connected high 28			_	f
typhened with rust driver  11 ISS analogue out from DAC -pulled - Mar 19 12 IN cable on table - connected FT to No. Mar 7 13 IN cable connected or to No. Mar 7 14 Pedatro - Interest of the Connected FT to No. Mar 7 14 Pedatro - Interest of the Connected Interest of the Connected FT to No. Mar 7 15 Power to ISS from rack - connected thru (red through) and to Interest of Iss of the Connected FT to No. Mar 7 16 Connected FT to No. Mar 7 17 To Los the Fighter - No. Access - pulled to Connected FT to No. Mar 7 18 At 10 to expansion - installed Mar 19 19 (Sto No. Min - Installed on Date No. Los A) 19 (driver - Mar 7 10 Connected - Mar 20 19 (No. Min - Installed on Date No. Los A) 19 (driver - Mar 7 10 Connected - Mar 20 19 (No. Min - Installed Connecte	<u> </u>		_	used short 0.16" hex nuts an
12 FM cable on table - connected Fir 1 bits May 7  18 FM cable connected for feedthrough - not to 13  19 FM capity in CER. Mar 7  10 FM capity in CER. Mar 7  11 FM capity in CER. Mar 7  12 FM capity in CER. Mar 7  13 FM capity in CER. Mar 7  14 FM capity in CER. Mar 7  15 FM capity in CER. Mar 7  16 FM capity in CER. Mar 7  16 FM capity in CER. Mar 7  17 FM capity in CER. Mar 7  18 FM capity in CER. Mar 7  18 FM capity in CER. Mar 7  19 FM capity in CER. Mar 7  10 FM capity	10			tightened with nut driver
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29 Laser RTD extension to rack installed - Mar 7 30 Laser RF driver to rack installed - Feb 28 31 Laser RF driver to rack installed - Mar 7 32 Laser RF driver to rack installed - Mar 7 33 Laser RF driver to rack installed - Mar 7 34 Laser RF driver to rack installed - Feb 28 35 Laser RF driver to rack installed - Mar 7 36 Laser RF driver to rack installed - Feb 28 37 Inometer to interlock cable - pulled to chiller from meter to interlock cable - pulled to chiller from - Mar 19 38 EtherCAT to interlock cable installed - Mar 4 39 AA to 10 expansion - installed Mar 19 39 Laser power cable on-table installed - Feb 28 39 (nc at feedthrough, or driver) 39 Ether On-table installed - Feb 28 39 (nc at feedthrough) 39 Mar 7 40 Chiller to Interlock box in rack - pulled Mar 19 40 Picomotor driver to feedthrough - installed - Feb 28 40 Chiller to Interlock box in rack - pulled Mar 19 41 Picomotor driver to feedthrough - installed - Feb 28 42 28 43 EtherCAT chassis to pcio driver - installed Feb 28 44 TTL RF input installed - Mar 7 54 Feedthrough to RF driver in Mech Room - installed Mar 19 55 EtherCAT chassis to EtherCAT splitter - pulled - March 19 56 EtherCAT chassis to EtherCAT splitter - pulled - March 19 - requires FF gender changer of EtherCAT table breakout to feedthrough - installed - Feb 28 56 EtherCAT table breakout to feedthrough - installed (Peb 28) 57 EtherCAT chassis to EtherCAT splitter - pulled - March 19 - requires FF gender changer of EtherCAT chassis from EtherCAT splitter - pulled - March 19 - requires FF gender changer of EtherCAT table breakout to feedthrough - Not	27			
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SetherCAT to interlock cable installed - Mar 4   SetherCAT to interlock cable installed but not connected to interlock - Feb 28	33			
EtherCAT to interlock cable installed but not connected to interlock - Feb 28  36 AA to 10 expansion - installed Mar 19  Laser power cable on-table installed - Feb 28  37 (nc at feedthrough, or driver)  RF splitter on-tablepower, not installed - Feb 28  28 - AC  Db25 to 2x DB9 - Cable installedand connected by 18 - Cable installed but missing end cap - Feb 28  40 Chiller to Interlock box in rack - pulled Mar 19  Picomotor driver to feedthrough - installed - Feb 28 (feedthrough) in and connected - Mar 7  EtherCAT to interlock cable installed Mar 19  And to 10 expansion - installed - Feb 28 (nc at feedthrough) in the feb 28 (nc at feedthrough) in the feedthrough in the feb 28 (nc at feedthrough) in the feedthrough in the feb 28 (nc at feedthrough) in the fel 28 (feedthrough in the feb 28 (feedth	34	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
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41 and connected - Mar 7  EtherCAT chassis to pcio driver - installed Feb 42 28  EtherCAT chassis from pico driver - installed 43 Feb 28  EtherCAT chassis from pico driver - installed 44 Feb 28  EtherCAT chassis from pico driver - installed 45 Feb 28  TTL RF input to feedthru installed (panel missing) - March 4  Feedthrough to RF driver in Mech Room - installed Mar 19  EtherCAT chassis to EtherCAT splitter - pulled - March 19  EtherCAT chassis from EtherCAT splitter - pulled - March 19  EtherCAT chassis from EtherCAT splitter - pulled - March 19 - requires FF gender changer  EtherCAT table breakout to feedthrough - EtherCAT table breakout to feedthrough - Not	40	Chiller to Interlock box in rack - pulled Mar 19		
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28 EtherCAT chassis from pico driver - installed 43 Feb 28  TTL RF input installed - Mar 7 Feedthrough to RF driver in Mech Room - installed Mar 19  EtherCAT chassis to EtherCAT splitter - pulled - March 19  EtherCAT chassis from pico driver - installed Feb 28  TTL RF input to feedthru installed (panel missing) - March 4 Feedthrough to RF driver in Mech Room - installed Mar 19  EtherCAT chassis to EtherCAT splitter - pulled - EtherCAT chassis to EtherCAT splitter - pulled - March 19  EtherCAT chassis from EtherCAT splitter - pulled - March 19 - requires FF gender changer EtherCAT table breakout to feedthrough - EtherCAT table breakout to feedthrough - Not	41			
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44 TTL RF input installed - Mar 7 missing) - March 4  Feedthrough to RF driver in Mech Room - installed Mar 19  EtherCAT chassis to EtherCAT splitter - pulled - March 19  EtherCAT chassis from EtherCAT splitter - pulled - March 19  EtherCAT chassis from EtherCAT splitter - pulled - March 19  EtherCAT chassis from EtherCAT splitter - pulled - March 19 requires FF gender changer  EtherCAT table breakout to feedthrough - EtherCAT table breakout to feedthrough - Not	43	Feb 28		
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45 installed Mar 19 EtherCAT chassis to EtherCAT splitter - pulled - March 19 EtherCAT chassis from EtherCAT splitter - 47 pulled - March 19 - requires FF gender changer EtherCAT table breakout to feedthrough - EtherCAT table breakout to feedthrough - State of the splitter - EtherCAT table breakout to feedthrough - State of the splitter - Pulled - March 19 - requires FF gender changer EtherCAT table breakout to feedthrough - State of the splitter - Pulled - March 19 - requires FF gender changer EtherCAT table breakout to feedthrough - Not	44			
46 March 19 March 19  EtherCAT chassis from EtherCAT splitter - 47 pulled - March 19 - requires FF gender changer  EtherCAT table breakout to feedthrough - EtherCAT table breakout to feedthrough - Not	45			
EtherCAT chassis from EtherCAT splitter - 47 pulled - March 19 - requires FF gender changer EtherCAT table breakout to feedthrough -  EtherCAT table breakout to feedthrough -				
47 pulled - March 19 - requires FF gender changer pulled - March 19 - requires FF gender changer  EtherCAT table breakout to feedthrough - EtherCAT table breakout to feedthrough - Not	46	Marcil 19	March 19	
47 pulled - March 19 - requires FF gender changer pulled - March 19 - requires FF gender changer  EtherCAT table breakout to feedthrough - EtherCAT table breakout to feedthrough - Not		EtherCAT chassis from EtherCAT splitter -	EtherCAT chassis from EtherCAT splitter -	
	47	pulled - March 19 - requires FF gender changer	pulled - March 19 - requires FF gender changer	
40 Installed - March 4	40			
	48	Installed - March /	Installed - March 4	I

49	Feedthrough to EtherCAT splitter in rack - installed - March 7	Feedthrough to EtherCAT splitter in rack - not installed - March 4
50	Aiming laser power cable - installed - NC to laser - march 7	Aiming laser power cable - not installed - march 4
51	Beam imager power cable - installed NC to imager - March 7	Beam imager power cable - not installed - March 4
52	24V power to corner feedthrough - EtherCAT on table - connected Mar 7	18V power to corner feedthrough - EtherCAT on table - not connect. Mar 4
53	24V on table to EtherCAT - connected - March7	18V on table to EtherCAT - not connected - March 4
54	DB15 from rotation stage to controller - installed March 4	DB15 from rotation stage to controller - installed March 4
55		100ft EtherCAT to rotation stage feedthroguh - (connected directly to chassis, not feedthrough - March 4
	Osc. In Mech room to Splitter in TCSX rack - car	
57	Power from ISS box to TTL box - installed March 7	Power from ISS box to TTL box - installed March 4
58	Chiller splitter cable - installed - March 19	Chiller splitter cable - installed - March 19
59	Camera CAT5 cable on-table - not installed - march 4	Camera CAT5 cable on-table - not installed - march 4
60	Camera CAT5 cable feedtrhough to network switch - not installed - mar 4	Camera CAT5 cable feedtrhough to network switch - not installed - mar 4
61	2Pin Dsub Motor Supply cable for rotation stage - connected directly from power not feedthrough - March 4	2Pin Dsub Motor Supply cable for rotation stage - connected directly from power not feedthrough - March 4
62	Laser power cable from Mech room - pulled - Mar 19	Laser power cable from Mech room - pulled - Mar 19
63	Intek BO box to site interlock - NC - march 4	Intek BO box to site interlock - NC - march 4
	2Pin Dsub Motor Supply cable on-table - NC - March 4	2Pin Dsub Motor Supply cable on-table - NC - March 4
65	Swapped pins 2 and 6 and installed - Mar-19	Swapped pins 2 and 6 and installed - Mar-19
66	19	Instek BO chassis to AA chassis - installed Mar 19
68	connected - March 4	AOM interlock cable from AOM to driver - not connected - March 4
69	N/A doesn't exist anymore (AOM interlock feedthrogh to driver)	N/A doesn't exist anymore (AOM interlock feedthrogh to driver)
70	24V feedthrough to rotation stage controller power - not installed	24V feedthrough to rotation stage controller power - not installed
	24V rack to feedtrhrough for rotation stage controller - onsatlled but connected directly to controller - Mar 7	24V rack to feedtrhrough for rotation stage controller - onsatlled but connected directly to controller - Mar 7
RF to Laser	4 cables installed - no driver	4 cables installed
Distrib. To RF	4 cables insatlled - no driver	4 cables insatlled
Cable dressing - ontable	Incomplete - Mar 5	Incomplete - Mar 5
Cable dressing - rack to table	Incomplete - Mar 5	Incomplete - Mar 5
Cable dressing - rack	Incomplete - Mar 5	Incomplete - Mar 5

# Electronics X Y

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Laser RF driver	Not installed - Mar 5	Installed - SN 21106D-20608 - Mar 5
Laser	Installed - SN 20311-21004D - Mar 5	Installed - SN 20608-21106D - Mar 5
Distribution box	Installed - Mar 5	Installed - Mar 5
Sine To TTL	Installed - Mar 5	Installed - Mar 5
D1300015 - ISS	Installed - S1301971 - Mar 5	Installed - no serial number - Mar 5
AOM Driver	Not installed Phase 1 - Mar 5	Not installed Phase 1 - Mar 5
D1201062 - Slow BO	Installed - SN1301940 - Mar 5	Installed - SN1301939 - Mar 5
Flipper 1	Removed Phase 1(is on-table) - Mar 5	Removed Phase 1(is on-table) - Mar 5
Sensor 1	Not installed Phase 1 - Mar 5	Not installed Phase 1 - Mar 5
Flipper 2	Installed - Mar 5 - need to change to fixed	Removed Phase 1(is on-table) - Mar 5
Sensor 2	Not installed Phase 1 - Mar 5	Not installed Phase 1 - Mar 5
Beam Imager	Not installed Phase 1 - Mar 5	Not installed Phase 1 - Mar 5
Temperature Sensor 1	Installed - Mar 7 - RF driver lines	Not installed Phase 1 - Mar 5
Temperature Sensor 2	Not installed Phase 1 - Mar 5	Not installed Phase 1 - Mar 5
Temperature Sensor 3	Not installed Phase 1 - Mar 5	Not installed Phase 1 - Mar 5
Temperature Sensor 4	Not installed Phase 1 - Mar 5	Not installed Phase 1 - Mar 5
Temperature Sensor 5	Not installed Phase 1 - Mar 5	Not installed Phase 1 - Mar 5
Temperature Sensor 6	Not installed Phase 1 - Mar 5	Not installed Phase 1 - Mar 5
Picomotor 1	Installed and working - Mar 5	Installed and working - Mar 5
Picomotor 2	Installed and working - Mar 5	Installed and working - Mar 5
Picomotor 3 - UPM	Installed and working - Mar 5	Installed and working - Mar 5
Picomotor BO Box 1	Installed and working - Mar 5	Installed and working - Mar 5
Picomotor BO Box 2	Installed and working - Mar 5	Installed and working - Mar 5
Rotation Stage Controller	Installed and working - Mar 5	Installed and working - Mar 5
CO2 Controller - D1200745	Installed - top removed - Mar 5 - S1302121	Installed - top removed - Mar 5
RF distribution - D1000124	Installed and working - Mar 5	Installed - required? - Mar 5
DC Sequencer - D1200757	Installed - S1202549 - Mar 5	Installed - S1202576 - Mar 5
CO2P EtherCAT splitter D1201063	Installed - Mar 20	Installed - Mar 20
Picomotor Driver D1100323	Installed - S1107546 - Mar 5	Installed - S1107549 - Mar 5
IR Sensor Amplifier - D1300366	Installed - Mar75 - limit not set	Installed - Mar 5 - limit not set
Viewport Sensor	Installed - not aligned - Mar 7	Installed - not aligned - Mar 5
Chiller Flow Meter	Installed - Mar 20	Installed - Mar 20
HEPA Filter	Installed - Mar 19	Installed - Mar 19
AC Drop for HEPA	Installed - Mar 19	Installed - Mar 19
AC Drop for Lighting	Installed - Mar 19	Installed - Mar 19
HEPA And light switches	Installed - Mar 19	Installed - Mar 19

Lighting Installed - Mar 19 Installed - Mar 19

#### FEEDTHROUGHS

FEEDTHROUGHS	X	Y
D1300767	Panel installed - Mar 5	Panel installed - Mar 5
CNR BO POWER	Insert and cables installed: Mar 7	Insert installed, no cables and hex nuts: Mar 5
CNR BO ETHERCAT SPLITTER	Insert and Cables intalled: Mar 7	Insert installed, no cables and hex nuts: Mar 5
MOTOR POWER	Insert installed, no cables and hex nuts: Mar 5	Insert installed, no cables and hex nuts: Mar 5
CTRL TO ROT STAGE	Insert installed, no cables and hex nuts: Mar 5	Insert installed, no cables and hex nuts: Mar 5
ROT STAGE SUPPLY	Insert installed, no cables and hex nuts: Mar 5	Insert installed, no cables and hex nuts: Mar 5
D1300766	Panel installed - Mar 7	Panel installed - Mar 5
RF TO LASER	Insert insatlled - not screwed into place	No insert installed - Mar 5
CO2 LASER RTD	Insert installed and cables connected - Mar 5	Insert installed and cables connected - Mar 5
CO2 LASER RF1	Insert installed and cables connected - Mar 5	Insert installed and cables connected - Mar 5
CO2 LASER RF2	Insert installed and cables connected - Mar 5	Insert installed and cables connected - Mar 5
D1300765	Panel installed - Mar 5	Panel installed - Mar 5
AOM DRIVE	Insert installed - cables NC - Mar 5	Insert installed and cables connected - Mar 5
AOM INTERLOCK	Insert not installed - no cables req'd - Mar 5	Insert installed - no cables req'd - Mar 5
HV SUPPLY TO PZT	Insert installed and connected - Mar 7	Insert installed and cables connected - Mar 5
POWER TO ISS	Insert installed, and cables connected: Mar 7	Insert installed, no cables and hex nuts: Mar 5
ISS ANALOG INPUTS	Insert installed, and cables connected: Mar 7	Insert installed and cables connected - Mar 5
ISS ANALOG OUTPUTS	Insert installed and cables connected - Mar 6	Insert installed and ext. cables connected - Mar 5
EMPTY PANELS	Some installed - gaps exist - Mar 5	Some installed - gaps exist - Mar 5
D1100323	Panel not installed - Mar 5	Panel installed - Mar 5
IN FROM PICO CONTROLLER	Insert installed - Mar 7	Insert installed, no cables and hex nuts: Mar 5
OTHERS	DOES NOT EXIST	DOES NOT EXIST
AOM DRIVE POWER	DOES NOT EXIST	DOES NOT EXIST
CAT5 NETWORK CABLE - IMAGER	DOES NOT EXIST	DOES NOT EXIST
CO2 LASER POWER	DOES NOT EXIST	DOES NOT EXIST

MI	ODTICS DUACETOS		1
Military	OPTICS - PHASE1&2	Installed and aligned?	
POLI		X	Υ
AOM Not installed - Phase 2 - Mar 5 Not installed - Mar 5 Installed - Mar 5 Installed - Mar 5 Not installed - Phase 2 - Mar 5	M1	Installed - Mar 5	Installed - Mar 5
AOM POLD M1 AOM DUMP Not installed - Phase 2 - Mar 5 Not insta	POL1	Installed - Mar 5	Installed - Mar 5
ADM DUMP    Not installed - Phase 2 - Mar 5   Not installed - Phase 2 - Mar 5	AOM	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
DUMP1	AOM FOLD M1	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
Installed - to be replaced in phase 2 - Mar 5   Installed - to be replaced in phase 2 - Mar 5   Not installed - Mar 5	AOM DUMP	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
ISS   S	DUMP1	Installed - Mar 5	Installed - Mar 5
PD1 LENS	M2/PO1	Installed - to be replaced in phase 2 - Mar 5	Installed - to be replaced in phase 2 - Mar 5
PD1 M1	ISS BS	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
PD1 Not installed - Phase 2 - Mar 5 Not installed - Mar 5 Not installed - Mar 5 Installed - Mar 5 Not installed - Phase 2 - Mar 5 Not installed - Mar 5 In	PD1 LENS	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
PD2 M1 Not installed - Phase 2 - Mar 5 Not installed - Mar 5 Not installed - Phase 2 - Mar 5 Not installed - Mar 5 Installed	PD1 M1	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
PD2 LENS  Not installed - Phase 2 - Mar 5  Installed - Mar 5  LENS1  Installed - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Installed -	PD1	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
PD2 Not installed - Phase 2 - Mar 5 Not installed - Phase 2 - Mar 5 Installed - Phase 2 - Mar 5 Installed - Not installed - Phase 2 - Mar 5 Not installed - Phase 2 - Mar	PD2 M1	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
PM1         Installed - Mar 5         Installed - Mar 5         Installed - Mar 5           LENS1         Installed - Mar 5         Installed - Mar 5           M3/PO2         Installed - War 5         Installed - Mar 5           M3/PO2         Installed - to be replaced in phase 2 - Mar 5         Installed - War 5           QPD BS         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           QPD1 LENS         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           QPD1         Installed - Mar 5         Not installed - Phase 2 - Mar 5           QPD2         M1         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           QPD2         Installed - Mar 5         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           QPD2         Installed - Mar 5         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           QPD2         Installed - Mar 5         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           QPD2         Installed - Mar 5         Installed - Mar 5         Installed - Mar 5           POL2         Installed - Mar 5         Installed - Mar 5         Installed - Mar 5           DUMPWC         Installed - Mar 5         Installed - Mar 5         Installed - Mar 5	PD2 LENS	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
LENS1  Installed - Mar 5  Installed - War 5  Installed - To be replaced in phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Installed - Mar 5  Instal	PD2	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
PM2  Installed - Mar 5  Installed - to be replaced in phase 2 - Mar 5  OPD BS  Not installed - Phase 2 - Mar 5  OPD I LENS  OPD I LENS  OPD I Installed - Mar 5  OPD I Inst	PM1	Installed - Mar 5	Installed - Mar 5
M3/PO2  QPD BS  Not installed - Phase 2 - Mar 5  QPD I LENS  QPD1 LENS  Not installed - Phase 2 - Mar 5  QPD1 LENS  Not installed - Phase 2 - Mar 5  QPD1 LENS  Not installed - Phase 2 - Mar 5  QPD1 Installed - Mar 5  QPD1 Installed - Mar 5  QPD2 M1  Not installed - Phase 2 - Mar 5  QPD2 Installed - Phase 2 - Mar 5  QPD2 Installed - Mar 5  QPD2 Installed - Mar 5  Not installed - Phase 2 - Mar 5  QPD2 Installed - Mar 5  Not installed - Phase 2 - Mar 5  QPD2 Installed - Mar 5  POL2 Installed - Mar 5  POL3 Installed - Mar 5  POL3 Installed - Mar 5  DUMPWC Installed - Mar 5  DUMPQ Installed - Mar 5  DUMP2 Installed - Mar 5  Installed - Mar 5  M4/FLIPPER 1 Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  M5 Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  M6/FLIPPER 1 SENS  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  M7/FLIPPER 1 SENS  Installed - Mar 5  Installed - Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Installed	LENS1	Installed - Mar 5	Installed - Mar 5
QPD BS  QPD LENS  Not installed - Phase 2 - Mar 5  QPD1 LENS  Not installed - Phase 2 - Mar 5  QPD1 Installed - Phase 2 - Mar 5  QPD2 M1  Not installed - Phase 2 - Mar 5  QPD2 M1  Not installed - Phase 2 - Mar 5  QPD2 M2  Installed - Mar 5  QPD2 M3  Installed - Mar 5  QPD2 M4  Not installed - Phase 2 - Mar 5  QPD2 M4  Installed - Mar 5  Installed - Phase 2 - Mar 5  QPD2 Installed - Mar 5  DUMPWC  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  DUMPPC  Installed - Mar 5  Inst	PM2	Installed - Mar 5	Installed - Mar 5
QPD1 LENS QPD1 Installed - Phase 2 - Mar 5 Not installed - Phase 2 - Mar 5 QPD2 M1 Not installed - Phase 2 - Mar 5 QPD2 M1 Not installed - Phase 2 - Mar 5 QPD2 Installed - Phase 2 - Mar 5 QPD2 Installed - Phase 2 - Mar 5 Not installed - Mar 5 I	M3/PO2	Installed - to be replaced in phase 2 - Mar 5	Installed - to be replaced in phase 2 - Mar 5
QPD1  Installed - Mar 5  QPD2 M1  Not installed - Phase 2 - Mar 5  QPD2  Installed - Mar 5  QPD2  Installed - Mar 5  QPD2  Installed - Mar 5  Not installed - Phase 2 - Mar 5  POL2  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  DUMPWC  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  DUMPP2  Installed - Mar 5  Not installed - Phase 2 - Mar 5  ANN M1  ANN M2  ANN M3  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  ANN M3  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar	QPD BS	·	
QPD1       Installed - Mar 5       Not installed - Phase 2 - Mar 5         QPD2 M1       Not installed - Phase 2 - Mar 5       Not installed - Phase 2 - Mar 5         QPD2       Installed - Mar 5       Not installed - Phase 2 - Mar 5         HWP & MOTORIZED ROT STAGE       Installed - Mar 5       Installed - Mar 5         POL2       Installed - Mar 5       Installed - Mar 5         POL3       Installed - Mar 5       Installed - Mar 5         DUMPWC       Installed - Mar 5       Installed - Mar 5         DUMP2       Installed - Mar 5       Installed - Mar 5         M4/FLIPPER 1       Installed - Mar 5       Installed - Mar 5         M4/FLIPPER 1 SENS       Not installed - Phase 2 - Mar 5       Not installed - Very placed in phase 2 - Mar 5         LENS2       Installed - Mar 5       Installed - Very placed in phase 2 - Mar 5         MS       Installed - Mar 5       Installed - Mar 5         MS       Installed - Mar 5       Installed - Very placed in phase 2 - Mar 5         LENS2       Installed - Mar 5       Installed - Very placed in phase 2 - Mar 5         MS       Installed - Mar 5       Installed - Mar 5         CENT MASK       Not installed - Mar 5       Installed - Mar 5         CENT MASK       Not installed - Mar 5       Installed - Mar 5	OPD1 LENS		
Installed - Mar 5	OPD1		
Installed - Mar 5	OPD2 M1	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
HWP & MOTORIZED ROT STAGE  POL 2  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  DUMPWC  Installed - Mar 5  Installed - Mar 5  DUMPQ2  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  DUMPQ2  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  M4/FLIPPER 1  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  M4/FLIPPER 1 Installed - Var 5  Installed - Mar 5  Installed - War 5  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - War 5  Installed - Phase 2 - War 5  Not installed - Phase 2 - War 5  Not installed - Phase 2 - War 5  Installed - War	-		
POL2 Installed - Mar 5 Installed - Value - Mar 5 Installed - Value -	HWP & MOTORIZED ROT STAGE		
POL3 DUMPWC Installed - Mar 5 DUMP2 Installed - Mar 5 Installed - Mar 5 Installed - Mar 5 Installed - Mar 5 DUMP2 Installed - Mar 5 Installed - Nar 5 Installed - Nar 5 Installed - Nar 5 Installed - Phase 2 - Mar 5 Installed - Phase 2 - Mar 5 Installed - Phase 2 - Mar 5 Installed - Phase 2 - Mar 5 Not installed - Phase 2 - Mar 5 Installed - Phase 2 - Mar 5 Not installed - Phase 2 - Mar 5 Installed - Phase 2 - Mar 5 Not installed - Phase 2 - Mar 5 Not installed - Phase 2 - Mar 5 Installed - Phase 2 - Mar 5 Not installed - Phase	POL2		
DUMPWC DUMP2 Installed - Mar 5 Installed - to be replaced in phase 2 - Mar 5 Installed - to be replaced in phase 2 - Mar 5 Installed - - Phase 2 - Mar 5 Installed	POL3		
DUMP2 Installed - Mar 5 Installed - Mar 5 Installed - to be replaced in phase 2 - Mar 5 Installed - to be replaced in phase 2 - Mar 5 Installed - to be replaced in phase 2 - Mar 5 Installed - Not installed - Phase 2 - Mar 5 Installed - Phase 2	DUMPWC		
M4/FLIPPER 1  Installed - to be replaced in phase 2 - Mar 5  FLIPPER 1 SENS  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Installed - Mar 5  Not installed - Phase 2 - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phas	DUMP2		Installed - Mar 5
FLIPPER 1 SENS  Not installed - Phase 2 - Mar 5  Installed - Mar 5  CENT MASK  Not installed - Mar 5  Not installed - Phase 2 - Mar 5  Not inst			
Installed - Mar 5  M5  Installed - Mar 5  Installed - Currently an iris - Mar 5  Installed - Mar 5  Not installed - Phase 2 - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Installed - Phase 2	,		
M5 Installed - Mar 5 Installed - Mar 5 CENT MASK CENT MASK DUMP Installed - Mar 5 Installed - Currently an iris - Mar 5 Installed - Phase 2 - Mar 5 Installed - Phas			
CENT MASK  CENT MASK DUMP  Installed - Mar 5  Not installed - Phase 2 - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5			
CENT MASK DUMP  Installed - Mar 5  Not installed - Phase 2 - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5			
Installed - have to replace with a fixed mirror - Installed fixed mirror - to be replaced in phase PLIPPER 2 SENS  Not installed - Phase 2 - Mar 5			·
FLIPPER 2         Mar 5         2 - Mar 5           FLIPPER 2 SENS         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           ANN M1         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           ANN LENS1         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           ANN M2         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           ANN M3         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           ANN MASK         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           ANN MASK DUMP         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           BS1         Installed - Mar 5         Installed - Mar 5           IMG LENS 1         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           IMG LENS BS         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5	CENT TINON DOTTI		
ANN M1  Not installed - Phase 2 - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5	FLIPPER 2	·	· · · · · · · · · · · · · · · · · · ·
ANN LENS1  Not installed - Phase 2 - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5	FLIPPER 2 SENS	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
ANN M2  Not installed - Phase 2 - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5	ANN M1	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
ANN M3  Not installed - Phase 2 - Mar 5  Installed - Phase 2 - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5	ANN LENS1	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
ANN MASK  ANN MASK  Not installed - Phase 2 - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5	ANN M2	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
ANN MASK DUMP  Not installed - Phase 2 - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5	ANN M3	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
ANN MASK DUMP  Not installed - Phase 2 - Mar 5  Installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5  Not installed - Phase 2 - Mar 5	ANN MASK		
BS1         Installed - Mar 5         Installed - Mar 5           IMG LENS 1         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5           IMG LENS BS         Not installed - Phase 2 - Mar 5         Not installed - Phase 2 - Mar 5			
IMG LENS 1       Not installed - Phase 2 - Mar 5       Not installed - Phase 2 - Mar 5         IMG LENS BS       Not installed - Phase 2 - Mar 5       Not installed - Phase 2 - Mar 5	BS1		
IMG LENS BS Not installed - Phase 2 - Mar 5 Not installed - Phase 2 - Mar 5			
	PWR METER HEAD	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5

IMG M1	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
IMG M2	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
IMG M3	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
IMG SCREEN	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
FLIR CAMERA	Not installed - Phase 2 - Mar 5	Not installed - Phase 2 - Mar 5
LENS3	Installed - Mar 5	Installed - Mar 5
DCBS/FINAL MIRROR	Installed - have to replace with a fixed mirror - Mar 5	Installed - Mirror - change in design - Mar 5
AIML	Installed - Mar 5	Installed - Mar 5
AIMM1	Installed - Mar 5	Installed - Mar 5
AIMM2	Not Installed - change in design - Mar 5	Not Installed - change in design - Mar 5
OUTPUT IRIS 1	Installed - Mar 6	Installed - Mar 5
OUTPUT IRIS 2	Installed - Mar 6	Installed - Mar 5
PERISCOPE	Installed - Mar 5	Installed - Mar 5
LPM	Installed - Mar 5	Installed - Mar 5
UPM	Installed - Mar 5	Installed - Mar 5
PERISCOPE - RANGE CHECK ( actuator		
range covers test mass?)	Checked - mar 5	Checked - mar 5

PLUMBING	X	Υ
CO2 Laser on-table hoses x2	Installed - Mar 5	Installed - Mar 5
Feeds to manifolds x2	Installed - Mar 5	Installed - Mar 5
Manifolds x 2	Installed - Mar 5	Installed - Mar 5
RF driver hoses x 8	Installed - RF driver not connected - Mar 5	Installed - Mar 5
WC beam dump x 2	Installed - Mar 5	Installed - Mar 5
AOM Driver x2	Not installed - Mar 5	Not installed - Mar 5
AOM x2	Not installed - Mar 5	Not installed - Mar 5

## Calibrations

Channel	Working	Calibration	Safe snapped
YARM			
L1:TCS-ITMY_CO2_PWR_SUPPLY_I	Real-time filter is working - Mar 21	2.441E-3 A/count	Safe snapped - Mar 21
L1:TCS-ITMY_CO2_PWR_SUPPLY_V	Real-time filter is working - Mar 21	4.882E-3 A/count	Safe snapped - Mar 21
L1:TCS-ITMY_CO2_LSRPWR_MTR	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMY_CO2_PZT_MON	Filter ok, input not confirmed - Mar 5	3.05176E-3 V@PZT/count??	Not BR - Mar 5
L1:TCS-ITMY_CO2_LSRPWR_HD_PD	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMY_CO2_PZT_SET_POINT	Filter ok, output not confirmed - Mar 5	327.68 counts/V@PZT	Not BR - Mar 5
		T = 5.14E-4 counts + 5.84C (calibration).	
L1:TCS-ITMY_CO2_CHILLER_SET_POINT	Real-time filter is working - Mar 21	OFFSET= -5.84C. GAIN = 1945.53 C/counts	Safe snapped - Mar 21
L1:TCS-ITMY_CO2_AOM_SET_POINT	Filter ok, output not confirmed - Mar 5	3276.8 counts/V@AOM, 0.8Hz zero	Not BR - Mar 5
L1:TCS-ITMY_CO2_ISS_OUT_AC	Filter ok, input not confirmed - Mar 5	6.10352E-4 counts per volt	Not BR - Mar 5
L1:TCS-ITMY_CO2_ISS_OUT_DC	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMY_CO2_ISS_IN_AC	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMY_CO2_ISS_IN_DC	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMY_CO2_CHILLER_SERVO_GAIN	Filter okay. Not calibrated, no gains - mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMY_CO2_AOM_SERVO_GAIN	Filter okay. Not calibrated, no gains - mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMY_CO2_LSRPWR_SET_POINT	Filter okay. Not calibrated, no gains - mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMY_CO2_LSRPWR_ERR_SIGNAL	Filter okay. Not calibrated, no gains - mar 5	Not calibrated - Mar 5	Not BR - Mar 5
LILITEC ITMY COO MEDV	Matrix runs. Not feeding through - wrong		
L1:TCS-ITMY_CO2_MTRX	matrix on MEDM screen	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMY_CO2_ISS_CTRL1		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_ISS_CTRL2		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_ISS_LOOP_SW		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_LOOP_SW_RB		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_QPD_A_SEG1		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_QPD_A_SEG2		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_QPD_A_SEG3		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_QPD_A_SEG4		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_QPD_B_SEG1		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_QPD_B_SEG2		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_QPD_B_SEG3		Not calibrated - Mar 5	
L1:TCS-ITMY_CO2_QPD_B_SEG4		Not calibrated - Mar 5	
L1:TCS-C_CO2_Y_LASERPOWER - rotation	B. L. P	Central: Pin = 43.894W, phi_min = 37.702	Not BB Mar 5
stage	Rotation stage channels are working - Mar 5	deg, P0 = 1.825E-4	Not BR - Mar 5
L1:TCS-C_CO2_Y_FLOWRATE	Input from Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5	Not BR - Mar 5
		VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,	
L1:TCS-C_CO2_Y_LASERTEMP	Input from Beckhoff - not checked - Mar 5	check RCABLE for Y	Not BR - Mar 5
L1:SYS_MOTION_C_PICO_H	PICOMOTORS working - Mar 5	14200 counts = 1/80 in -> 8.8E-7m per count	Not BR - Mar 5
L1:TCS-C_CO2_Y_LASERONOFFMON	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C_CO2_Y_INTERLOCKRTDMON	Beckhoff - channel doesn't exist - Mar 5	N/A - binary	N/A - binary
L1:TCS-C_CO2_Y_INTERLOCKFLOWMON	Beckhoff - channel doesn't exist - Mar 5	N/A - binary	N/A - binary
L1:TCS-C_CO2_Y_INTERLOCKAUX1MON	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C_CO2_Y_INTERLOCKAUX2MON	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C_CO2_Y_LASERTEMPVOLTAGE	Beckhoff - not checked - Mar 5	See calibration above	N/A
L1:TCS-C_CO2_Y_FLOWRATEVOLTAGE	Beckhoff - not checked - Mar 5	See calibration above	N/A
L1:TCS-C_CO2_Y_SHUTTER1MON	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C CO2 Y SHUTTER2MON	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C CO2 Y SHUTTER3MON	N/A defunct channel	N/A - binary	N/A - binary
	TYPE GOLD CHAINE	1.47. 5.113. 7	, y, c sindiy

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L1:TCS-C_CO2_Y_TEMPERATURESENSOR1	DESCRIPTION OF SPREED OF A LIVE	NI/A I'l I'l D I K	21/2
	BECKHOFF OUT OF ORDER - Check this	N/A - calibrated in Beckhoff	N/A
L1:TCS-C_CO2_Y_TEMPERATURESENSOR2	BECKHOFF OUT OF ORDER - Check this	N/A - calibrated in Beckhoff	N/A
L1:TCS-C_CO2_Y_TEMPERATURESENSOR3	BECKHOFF OUT OF ORDER - Check this	N/A - calibrated in Beckhoff	N/A
L1:TCS-C_CO2_Y_TEMPERATURESENSOR4	BECKHOFF OUT OF ORDER - Check this	N/A - calibrated in Beckhoff	N/A
L1:TCS-C_CO2_Y_TEMPERATURESENSOR5	BECKHOFF OUT OF ORDER - Check this	N/A - calibrated in Beckhoff	N/A
L1:TCS-C_CO2_Y_TEMPERATURESENSOR6	BECKHOFF OUT OF ORDER - Check this	N/A - calibrated in Beckhoff	N/A
L1:TCS-C_CO2_Y_LASERONOFFSWITCH	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C_CO2_Y_ACTAUX1	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C CO2 Y ACTAUX2	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C_CO2_Y_AIMENABLE		N/A - binary	
	Beckhoff - not checked - Mar 5		N/A - binary
L1:TCS-C_CO2_Y_FLIRENABLE	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C_CO2_Y_ACTFLIP1	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
L1:TCS-C_CO2_Y_ACTFLIP2	Beckhoff - not checked - Mar 5	N/A - binary	N/A - binary
XARM			
L1:TCS-ITMX_CO2_PWR_SUPPLY_I	Real-time filter is working - Mar 21	2.441E-3 A/count	Safe snapped - Mar 21
L1:TCS-ITMX CO2 PWR SUPPLY V	Real-time filter is working - Mar 21	4.882E-3 A/count	Safe snapped - Mar 21
L1:TCS-ITMX_CO2_LSRPWR_MTR	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX CO2 PZT MON	Filter ok, input not confirmed - Mar 5	3.05176E-3 V@PZT/count	Not BR - Mar 5
L1:TCS-ITMX_CO2_LSRPWR_HD_PD	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	
			Not BR - Mar 5
L1:TCS-ITMX_CO2_PZT_SET_POINT	Filter ok, output not confirmed - Mar 5	327.68 counts/V@PZT	Not BR - Mar 5
L1:TCS-ITMX CO2 CHILLER SET POINT	Real-time filter is working - Mar 21	T = 5.14E-4 counts + 5.84C (calibration). OFFSET= -5.84C. GAIN = 1945.53 C/counts	Safe snapped - Mar 21
L1:TCS-ITMX_CO2_CHILLER_SET_POINT L1:TCS-ITMX_CO2_AOM_SET_POINT	Real-time filter is working - Mar 21		
	Filter ok, output not confirmed - Mar 5	3276.8 counts/V@AOM, 0.8Hz zero	Not BR - Mar 5
L1:TCS-ITMX_CO2_ISS_OUT_AC	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX_CO2_ISS_OUT_DC	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX_CO2_ISS_IN_AC	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX_CO2_ISS_IN_DC	Filter ok, input not confirmed - Mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX_CO2_CHILLER_SERVO_GAIN	Filter okay. Not calibrated, no gains - mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX_CO2_AOM_SERVO_GAIN	Filter okay. Not calibrated, no gains - mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX_CO2_LSRPWR_SET_POINT	Filter okay. Not calibrated, no gains - mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX_CO2_LSRPWR_ERR_SIGNAL	Filter okay. Not calibrated, no gains - mar 5	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX_CO2_MTRX	Matrix is okay - values not set	Not calibrated - Mar 5	Not BR - Mar 5
L1:TCS-ITMX_CO2_IFMXX L1:TCS-ITMX_CO2_ISS_CTRL1	Placifix is okay - values flot set	Not calibrated - Mar 5	NOC BR - Mai 3
L1:TCS-ITMX_CO2_ISS_CTRL2		Not calibrated - Mar 5	
L1:TCS-ITMX_CO2_ISS_LOOP_SW		Not calibrated - Mar 5	
L1:TCS-ITMX_CO2_LOOP_SW_RB		Not calibrated - Mar 5	
L1:TCS-ITMX_CO2_QPD_A_SEG1		Not calibrated - Mar 5	
L1:TCS-ITMX_CO2_QPD_A_SEG2		Not calibrated - Mar 5	
L1:TCS-ITMX_CO2_QPD_A_SEG3		Not calibrated - Mar 5	
L1:TCS-ITMX CO2 QPD A SEG4		Not calibrated - Mar 5	
L1:TCS-ITMX_CO2_QPD_B_SEG1		Not calibrated - Mar 5	
L1:TCS-ITMX CO2 OPD B SEG2		Not calibrated - Mar 5	
L1:TCS-ITMX_CO2_QPD_B_SEG3		Not calibrated - Mar 5	
L1:TCS-ITMX_CO2_QPD_B_SEG4			
L1:TCS-C_CO2_X_LASERPOWER - rotation	B. L. Const. and L. L. Const. and L.	Not calibrated - Mar 5	
	Rotation should be working - not checked Mar		
		Not onlineated Man C	Net DD Men F
stage	5	Not calibrated - Mar 5	Not BR - Mar 5
stage L1:TCS-C_CO2_X_FLOWRATE	5 Input from Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5	Not BR - Mar 5 Not BR - Mar 5
L1:TCS-C_CO2_X_FLOWRATE	Input from Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3,	Not BR - Mar 5
L1:TCS-C_CO2_X_FLOWRATE L1:TCS-C_CO2_X_LASERTEMP	Input from Beckhoff - not checked - Mar 5 Input from Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,	Not BR - Mar 5 Not BR - Mar 5
L1:TCS-C_CO2_X_FLOWRATE L1:TCS-C_CO2_X_LASERTEMP L1:SYS_MOTION_C_PICO_H	Input from Beckhoff - not checked - Mar 5 Input from Beckhoff - not checked - Mar 5 PICOMOTORS working - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count	Not BR - Mar 5 Not BR - Mar 5 Not BR - Mar 5
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON	Input from Beckhoff - not checked - Mar 5 Input from Beckhoff - not checked - Mar 5 PICOMOTORS working - Mar 5 Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON	Input from Beckhoff - not checked - Mar 5 Input from Beckhoff - not checked - Mar 5 PICOMOTORS working - Mar 5 Beckhoff - not checked - Mar 5 Beckhoff - channel doesn't exist - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON	Input from Beckhoff - not checked - Mar 5 Input from Beckhoff - not checked - Mar 5 PICOMOTORS working - Mar 5 Beckhoff - not checked - Mar 5 Beckhoff - channel doesn't exist - Mar 5 Beckhoff - channel doesn't exist - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON	Input from Beckhoff - not checked - Mar 5 Input from Beckhoff - not checked - Mar 5 PICOMOTORS working - Mar 5 Beckhoff - not checked - Mar 5 Beckhoff - channel doesn't exist - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON	Input from Beckhoff - not checked - Mar 5 Input from Beckhoff - not checked - Mar 5 PICOMOTORS working - Mar 5 Beckhoff - not checked - Mar 5 Beckhoff - channel doesn't exist - Mar 5 Beckhoff - channel doesn't exist - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - binary N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A - binary  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON	Input from Beckhoff - not checked - Mar 5  Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - binary N/A - binary N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A - binary  N/A - binary  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON	Input from Beckhoff - not checked - Mar 5  Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE	Input from Beckhoff - not checked - Mar 5  Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary See calibration above See calibration above	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON	Input from Beckhoff - not checked - Mar 5  Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary See calibration above See calibration above N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON	Input from Beckhoff - not checked - Mar 5  Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary See calibration above See calibration above N/A - binary N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON	Input from Beckhoff - not checked - Mar 5  Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary See calibration above See calibration above N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A - binary  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1	Input from Beckhoff - not checked - Mar 5  Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary See calibration above See calibration above N/A - binary N/A - calibrated in Beckhoff	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  N/A defunct channel  BECKHOFF OUT OF ORDER - Check this	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary See calibration above See calibration above N/A - binary N/A - binary N/A - binary N/A - binary N/A - calibrated in Beckhoff N/A - calibrated in Beckhoff	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  N/A defunct channel  BECKHOFF OUT OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary See calibration above See calibration above N/A - binary N/A - binary N/A - calibrated in Beckhoff N/A - calibrated in Beckhoff N/A - calibrated in Beckhoff	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3  L1:TCS-C_CO2_X_TEMPERATURESENSOR3	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  N/A defunct channel  BECKHOFF OUT OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary See calibration above See calibration above N/A - binary N/A - binary N/A - binary N/A - binary N/A - calibrated in Beckhoff N/A - calibrated in Beckhoff	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  N/A defunct channel  BECKHOFF OUT OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary See calibration above See calibration above N/A - binary N/A - binary N/A - calibrated in Beckhoff N/A - calibrated in Beckhoff N/A - calibrated in Beckhoff	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A - binary
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3  L1:TCS-C_CO2_X_TEMPERATURESENSOR3	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  N/A defunct channel  BECKHOFF OUT OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - calibrated in Beckhoff	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A - binary  N/A  N/A
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR5	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  N/A defunct channel  BECKHOFF OUT OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - calibration above N/A - binary N/A - calibrated in Beckhoff	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A - binary  N/A  N/A  N/A
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR5  L1:TCS-C_CO2_X_TEMPERATURESENSOR6	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  Bec	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - binary N/A - binary N/A - binary See calibration above See calibration above See calibration above N/A - binary N/A - binary N/A - calibrated in Beckhoff	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER2MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR5  L1:TCS-C_CO2_X_TEMPERATURESENSOR6  L1:TCS-C_CO2_X_TEMPERATURESENSOR6  L1:TCS-C_CO2_X_TEMPERATURESENSOR6  L1:TCS-C_CO2_X_LASERONOFFSWITCH  L1:TCS-C_CO2_X_LASERONOFFSWITCH	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - NOT OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - binary N/A - binary N/A - binary See calibration above See calibration above See calibration above N/A - binary N/A - binary N/A - binary N/A - calibrated in Beckhoff N/A - binary N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR5  L1:TCS-C_CO2_X_TEMPERATURESENSOR6  L1:TCS-C_CO2_X_LASERONOFFSWITCH  L1:TCS-C_CO2_X_LASERONOFFSWITCH  L1:TCS-C_CO2_X_ACTAUX2	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - NOT OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5 VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25, 14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - calibrated in Beckhoff N/A - binary N/A - binary N/A - binary	Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR6  L1:TCS-C_CO2_X_LASERONOFFSWITCH  L1:TCS-C_CO2_X_LASERONOFFSWITCH  L1:TCS-C_CO2_X_ACTAUX2  L1:TCS-C_CO2_X_AIMENABLE	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - calibrated in Beckhoff N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A - binary  N/A - binary  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_LASERTEMPVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR5  L1:TCS-C_CO2_X_LASERONOFFSWITCH  L1:TCS-C_CO2_X_LASERONOFFSWITCH  L1:TCS-C_CO2_X_ACTAUX2  L1:TCS-C_CO2_X_AIMENABLE  L1:TCS-C_CO2_X_FLIRENABLE	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - calibrated in Beckhoff N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A - binary  N/A - binary  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/
L1:TCS-C_CO2_X_FLOWRATE  L1:TCS-C_CO2_X_LASERTEMP  L1:SYS_MOTION_C_PICO_H  L1:TCS-C_CO2_X_LASERONOFFMON  L1:TCS-C_CO2_X_INTERLOCKRTDMON  L1:TCS-C_CO2_X_INTERLOCKFLOWMON  L1:TCS-C_CO2_X_INTERLOCKAUX1MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_INTERLOCKAUX2MON  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_FLOWRATEVOLTAGE  L1:TCS-C_CO2_X_SHUTTER1MON  L1:TCS-C_CO2_X_SHUTTER3MON  L1:TCS-C_CO2_X_TEMPERATURESENSOR1  L1:TCS-C_CO2_X_TEMPERATURESENSOR2  L1:TCS-C_CO2_X_TEMPERATURESENSOR3  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR4  L1:TCS-C_CO2_X_TEMPERATURESENSOR6  L1:TCS-C_CO2_X_LASERONOFFSWITCH  L1:TCS-C_CO2_X_LASERONOFFSWITCH  L1:TCS-C_CO2_X_ACTAUX2  L1:TCS-C_CO2_X_AIMENABLE	Input from Beckhoff - not checked - Mar 5  PICOMOTORS working - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - channel doesn't exist - Mar 5  Beckhoff - not checked - Mar 5  Beckhoff - not OF ORDER - Check this  BECKHOFF OUT OF ORDER - Check this  Beckhoff - not checked - Mar 5	GAIN = 1.2742 gpm/V, OFFSET = -2.5  VGAIN = 2.829E-3, VOFFSET = 20.16E-3, RCABLE = 2.85 (Ohms), VBRIDGEIN = 1.25,  14200 counts = 1/80 in -> 8.8E-7m per count N/A - binary N/A - calibrated in Beckhoff N/A - binary	Not BR - Mar 5  Not BR - Mar 5  Not BR - Mar 5  N/A - binary  N/A - binary  N/A - binary  N/A - binary  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/