

EPICS Names

April, 2007

Crvo: 15K Hall C

CFI6731C	15k Flow	g/s
CTD673	15K Supply temp at ESR	K
CPI673	15K Supply pressure at ESR	atm
CTD9541	20K return temp at ESR	K
CPI9541	20K return pressure at ESR	atm
haCryo_15K_Total_F	sum of Hall A and Hall C 15K flows	g/s
CFI60DLP	"dirty flowrate" at ESR (warm return)	g/s
CTD6614	Hall A 15K supply temp	K

Hall C Cryostat

hcHe_Supply_1_R	15K Supply temp before JTs	K
hcHe_Return_1_R	Return temp after tee of 3 HX outputs	K
hcHe_Return_2_R	Return temp after tee of 3 HX outputs	K
hcValveBox_Return_R	warm return temp	K
hcWarm_Return_Pos	warm return valve position	(%)
hcScatt_Chamber_Vac_R		
hcBDSPOS.VAL	BDS tgt lifter encoder position	
hcBDSPOS	Encoder (target) position in cryolifter	

Crvo: 4K Hall C

CFI6711C	4k Flow	g/s
CTD671SC	4K Supply temp at ESR	K
CPI671SC	4K Supply pressure at ESR	atm
CTD672	5K return temp at ESR	K
CPI672	5K return pressure at ESR	atm

Loop Specific:**Loop 1:****Temperatures & JT**

hcL1_JTV_R	JT valve position	(%)
hcHX1_Bottom_R	temp at HX input	K
hcHX1_Top_R	temp at HX exit	K
hcL1_Cermox_1_R	temp before cell	K
hcL1_Cermox_2_R	temp before cell	K
hcL1_Cermox_3_R	temp after cell	K
hcL1_VP_Cell_P_to_T_CALC.VAL	VP bulb before cell	K

Fan

hcL1_Fan_frequency_R	from tach	Hz
hcL1fc_voltage_R.VAL	fan voltage	Volts
hcL1fc_current_R.VAL	fan current	mAmps
hcL1fc_power_sp_W.VAL	fan power	Watts
hcL1fc_prcnthz_W.VAL	Percent frequency on Loop 1 fan	(%)
hcL1fc_sp_hz_W.VAL	Fan controller frequency	Hz

Pressures

hcH2_P_Ballast_R	ballast tank pressure	psia
hcH2_P_Exhaust_R	exhaust pressure at gas panel	psia
hcH2_P_Fill_Target_R	on target side of fill solenoid valve	psia
hcH2_P_Fill_Bottle_R	on bottle side of fill solenoid valve	psia
hcH2_Omega_DPG_Sensor_R	pump head	inches H2O

High Power Heater

hcL1_hp_power_R	HPH power from power supply	Watts
hcL1_hp_power_max	software limit on HPH	Watts
hcL1_hp_voltage_ADC_CONV	heater voltage	Volts
hcL1_hp_current_ADC_CONV	heater current	Amps
hcL1_beam_current	read from a BCM	uA
hcL1_pbeam	calculated beam power	Watts
hcL1_hp_pid.MMOD	Pid mode on or off	
hcL1_hp_pid.OVAL	HPH power to set from pid	Watts
hcL1_hp_pid.VAL	HPH set temperature	K
hcL1_Beam_Comp_Switch	HPH beam compensation switch	

Loop 2:**Temperatures & JT**

hcL2_JTV_R	JT valve position	(%)
hcHX2_Bottom_R	temp at HX input	K
hcHX2_Top_R	temp at HX exit	K
hcL2_Cermox_1_R	temp before cell	K
hcL2_Cermox_2_R	temp before cell	K
hcL2_Cermox_3_R	temp after cell	K
hcL2_VP_Cell_P_to_T_CALC.VAL	VP bulb before cell	K

Fan

hcL2_Fan_frequency_R	from tach	Hz
hcL2fc_voltage_R.VAL	fan voltage	Volts
hcL2fc_current_R.VAL	fan current	mAmps
hcL2fc_power_sp_W.VAL	fan power	Watts
hcL2fc_prcnthz_W.VAL	Percent frequency on Loop 1 fan	(%)
hcL2fc_sp_hz_W.VAL	Fan controller frequency	Hz

Pressures

hcD2_P_Ballast_R	ballast tank pressure	psia
hcD2_P_Exhaust_R	exhaust pressure at gas panel	psia
hcD2_P_Fill_Target_R	on target side of fill solenoid valve	psia
hcD2_P_Fill_Bottle_R	on bottle side of fill solenoid valve	psia
hcD2_Omega_DPG_Sensor_R	pump head	inches H2O

High Power Heater

hcL2_hp_power_R	HPH power from power supply	Watts
hcL2_hp_power_max	software limit on HPH	Watts
hcL2_hp_voltage_ADC_CONV	heater voltage	Volts
hcL2_hp_current_ADC_CONV	heater current	Amps
hcL2_beam_current	read from a BCM	uA
hcL2_pbeam	calculated beam power	Watts
hcL2_hp_pid.MMOD	Pid mode on or off	
hcL2_hp_pid.OVAL	HPH power to set from pid	Watts
hcL2_hp_pid.VAL	HPH set temperature	K
hcL2_Beam_Comp_Switch	HPH beam compensation switch	

Loop 3:**Temperatures & JT**

hcL3_JTV_R	JT valve position	(%)
hcHX3_Bottom_R	temp at HX input	K
hcHX3_Top_R	temp at HX exit	K
hcL3_Cermox_1_R	temp before cell	K
hcL3_Cermox_2_R	temp before cell	K
hcL3_Cermox_3_R	temp after cell	K
hcL3_VP_Cell_P_to_T_CALC.VAL	VP bulb before cell	K

Fan

hcL3_Fan_frequency_R	from tach	Hz
hcL3fc_voltage_R.VAL	fan voltage	Volts
hcL3fc_current_R.VAL	fan current	mAmps
hcL3fc_power_sp_W.VAL	fan power	Watts
hcL3fc_prcnthz_W.VAL	Percent frequency on Loop 1 fan	(%)
hcL3fc_sp_hz_W.VAL	Fan controller frequency	Hz

Pressures

hcHe4_P_Ballast_R	ballast tank pressure	psia
hcHe4_P_Exhaust_R	exhaust pressure at gas panel	psia
hcHe4_P_Fill_Target_R	on target side of fill solenoid valve	psia
hcHe4_P_Fill_Bottle_R	on bottle side of fill solenoid valve	psia
hcHe4_Omega_DPG_Sensor_R	pump head	inches H2O

High Power Heater

hcL3_hp_power_R	HPH power from power supply	Watts
hcL3_hp_power_max	software limit on HPH	Watts
hcL3_hp_voltage_ADC_CONV	heater voltage	Volts
hcL3_hp_current_ADC_CONV	heater current	Amps
hcL3_beam_current	read from a BCM	uA
hcL3_pbeam	calculated beam power	Watts
hcL3_hp_pid.MMOD	Pid mode on or off	
hcL3_hp_pid.OVAL	HPH power to set from pid	Watts
hcL3_hp_pid.VAL	HPH set temperature	K
hcL3_Beam_Comp_Switch	HPH beam compensation switch	