

Telemetry description for DS2 series

facility name	TLM ID	TLM NAME	UNIT	Description	Example
				time (yyyy/mm/dd hh:mm:ss.s00000)	2014/12/16 21:02:00.000000
FPEF	J#P0602J03078	Count No.	raw	Decimal loop counter 0-9, increment by 0.1sec.	0
FPEF	J#P0602J03090	Tlm Counter	raw	Hex. loop counter of telemetry (loop 1-C8)	7f
FPEF	J#P0602J0407C	USER/DI 4	raw	Answer bit(0/1) of Experiment Cell	1
FPEF	J#P0602J0407D	USER/DI 3	raw	Answer bit(0/1) of Experiment Cell	1
FPEF	J#P0602J0407E	USER/DI 2	raw	Answer bit(0/1) of Experiment Cell	0
FPEF	J#P0602J0407F	USER/DI 1	raw	Answer bit(0/1) of Experiment Cell	1
FPEF	J#P0602J04189	USER/DO 7	raw	Status bit(0/1) of Experiment Cell	1
FPEF	J#P0602J0418A	USER/DO 6	raw	Status bit(0/1) of Experiment Cell	1
FPEF	J#P0602J0418B	USER/DO 5	raw	Status bit(0/1) of Experiment Cell	1
FPEF	J#P0602J0418C	USER/DO 4	raw	Status bit(0/1) of Experiment Cell	1
FPEF	J#P0602J0418D	USER/DO 3	raw	Status bit(0/1) of Experiment Cell	1
FPEF	J#P0602J0418E	USER/DO 2	raw	Status bit(0/1) of Experiment Cell	1
FPEF	J#P0602J0418F	USER/DO 1	raw	Status bit(0/1) of Experiment Cell	1
FPEF	J#P0602J03120	Obs Win TS3 Temp	deg C	temperature of observation window for 2D Cam	23.137906
FPEF	J#P0602J03130	IR Win TS4 Temp	deg C	temperature of observation window for IR view	22.617871
FPEF	J#P0602J03140	MI Win TS5 Temp	deg C	temperature of observation window for MIDM	22.478706
FPEF	J#P0602J03150	C-D Amp Temp	deg C	relative temperature amplified "C-D TC4 Temp", the range is 5[K]	1.032139
FPEF	J#P0602J03260	H-D TC1 Temp	deg C	Heating disk temperature, thermocouple-1	22.815631
FPEF	J#P0602J03270	H-D TC2 Temp	deg C	Heating disk temperature, thermocouple-2	22.925497
FPEF	J#P0602J03280	H-D TC3 Temp	deg C	Heating disk temperature, thermocouple-3	22.749711
FPEF	J#P0602J03290	C-D TC4 Temp	deg C	cooling disk temperature, thermocouple-4	19.790637
FPEF	J#P0602J03300	C-D TC5 Temp	deg C	cooling disk temperature, thermocouple-5	20.164183
FPEF	J#P0602J03310	C-D TC6 Temp	deg C	cooling disk temperature, thermocouple-6	20.383917
FPEF	J#P0602J03320	TC Comp Temp	deg C	temperature of TC cold junction compensation	23.167211
FPEF	J#P0602J04030	Atmos Pt2 Temp	deg C	temperature of gas in Experiment Cell, platinum sensor 2	22.031916
FPEF	J#P0602J04040	Atmos Pt3 Temp	deg C	temperature of gas in Experiment Cell, platinum sensor 3	22.830279
FPEF	J#P0602J04050	Atmos Pt4 Temp	deg C	temperature of gas in Experiment Cell, platinum sensor 4	22.720413
FPEF	J#P0602J04060	CoolantECINTempPt5	deg C	temperature of cooling water at inlet of Experiment Cell, platinum sensor 5	18.750566
FPEF	J#P0602J04200	MI Focus Posn	mm	MIDM Lens position, focus	0
FPEF	J#P0602J04210	MI Rad Posn	mm	MIDM Lens position, radial	0
FPEF	J#P0602J04220	MI Axis Posn	mm	MIDM Lens position, Axial	0
FPEF	J#P0602J04249	MI Axis Move St	ND	moving status of the MIDM Lens in a axial direction	Stopped
FPEF	J#P0602J0424C	MI Rad Move St	ND	moving status of the MIDM Lens in a radial direction	Stopped
FPEF	J#P0602J0424F	MI Focus Moving St	ND	moving status of the MIDM Lens in a focus direction	Stopped
FPEF	J#P0602J04260	Exp Seq Status	ND	status of Experiment Sequence	Not Pause
FPEF	J#P0602J04300	IR Temp Get St	ND	Sampling mode status of IR imager	Not Getting
FPEF	J#P0602J04310	IR MeasurePnt X1	ND	Not used in this series	no data on DS2
FPEF	J#P0602J04320	IR MeasurePnt Y1	ND	Not used in this series	no data on DS2
FPEF	J#P0602J24030	Ar Gas Press	kPa	Neon/Argon Gas pressure in Experiment Cell	1.257362
FPEF	J#P0602J24110	CoolingWaterTemp	deg C	temperature of cooling water	21.533854
FPEF	J#P0602J24120	IR Camera Temp	deg C	temperature inside IR camera	23.496804
FPEF	J#P0602J24190	Analog Gr Level	mV	Electrical grounding level of Experiment cell	0
FPEF	J#P0602J2421E	Gas Supply Vlv	ND	status of the Gas Supply Valve	Closed
FPEF	J#P0602J2421F	Gas Vent Vlv	ND	status of the Gas Vent Valve	Closed
FPEF	J#P0602J24270	IR Comm Mode	ND	communication mode of IR camera	Idle
FPEF	J#P0602J24290	IR (X1, Y1)Temp	ND	Not used in this series	0
FPEF	J#P0602J24300	IR(X1+1,Y1)Temp	ND	Not used in this series	0
FPEF	J#P0602J24310	IR(X1,Y1+1)Temp	ND	Not used in this series	0
FPEF	J#P0602J24320	IR(X1+1,Y1+1)Temp	ND	Not used in this series	0
FPEF	CD cool/heat cmd	CD cool/heat cmd	cooler/heater	status of command to change mode of Cooling Disk	0
FPEF	Cooling_Disk status	Cooling_Disk status	cooler/heater	status of the cooling disk function	cooler
FPEF	CD moving	CD moving	ON/OFF	Cooling Disk Moving status	OFF
FPEF	CD moving direction	CD moving direction	close/open	moving status between Cooling Disk and Heating Disk	open
FPEF	LB fomation rate	LB fomation rate	mm/s	moving speed of Cooling Disk with liquid volume adjusting	0.5
FPEF	LB target length	LB target length	mm	target length of Liquid Bridge (Cooling Disk move to target length with liquid volume adjusting)	4
FPEF	CD moving rate	CD moving rate	mm/s	moving speed of cooling disk without volume adjusting	0
FPEF	CD taraget posn w/o volume adjusting	CD taraget posn w/o volume adjusting	mm	target length of Liquid Bridge (Cooling Disk move to target length without liquid volume adjusting)	0
FPEF	LB volume adjusting status	LB volume adjusting status	ON/OFF	status of Liquid Bridge volume adjusting	ON
FPEF	LB volume adjusting types	LB volume adjusting types	decrease/increase	adjusting types for Liquid Bridge volume	decrease
FPEF	LB volume adjusting rate	LB volume adjusting rate	μL/s	adjusting rate for Liquid Bridge volume	0.2
FPEF	adjusting volume for LB	adjusting volume for LB	μL	adjusting volume for Liquid Bridge volume	-21
FPEF	S Laser status	S Laser status	ON/OFF	status of Slit Laser	OFF
FPEF	B Light status	B Light status	ON/OFF	status of Back Light	ON
FPEF	LED1 status	LED1 status	ON/OFF	status of LED1	ON
FPEF	LED2 status	LED2 status	ON/OFF	status of LED2	ON