PV control names  VELA:

Notes:

Get: to read a value from a PV

Set: to put a value to a PV.

Anything marked VM is for the simulation mode only.

Magnets

|  |  |  |
| --- | --- | --- |
| SI | Double  Amps | Set Current |
| RI | Double  Amps | Get Current |
| Sta | Enum | Get status:   |  |  | | --- | --- | | 0 | OFF | | 1 | ON | | 2 | TIMING | | 3 | UNPLUGGED | | 4 | UNDEFINED | | 5 | ON\_FAULT | | 6 | OFFLINE | |

Magnet PSU

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| On | Enum | Set: Turn on PSU   |  |  | | --- | --- | | 0 | OFF | | 1 | ON | |
| Off | Enum | Set: Turn off PSU   |  |  | | --- | --- | | 0 | OFF | | 1 | ON | |
| Rst | Enum | Set: Reset PLC   |  |  | | --- | --- | | 0 | RESET | | 1 | RESET | |
| RIRAN | Double | Set Rnd. For VM only. Percent to randomise the PSU. Default at 5% |
| Cmi | MMBI  DIRECT | Set: 16 flags. This is set from the PLC on VELA or by hand in the VM. In the VM the default is all interlocks are GOOD and equals 65535. Ilk<n> reads these flags |
| Ilk<n> | <n> 1- 16  BI ENUM | Get: Interlock status, see Cmi above   |  |  | | --- | --- | | 0 | BAD | | 1 | GOOD | |

Magnet Polarity

|  |  |  |
| --- | --- | --- |
| PR<A,B>N:<On,Off> | Enum | Set:  Normal polarity On. Only changes when RI<0.5 amps  Reverse polarity Sta will be set to off. This is identical to reverse Off  Normal polarity Off. Only changes when RI<0.5 amps  Reverse polarity Sta will be set to off. This is identical to reverse On |
| PR<A,B>R:<On,Off> | Enum | Set:  Reverse polarity On. Only changes when RI<0.5 amps  Normal polarity Sta will be set to off. This is identical to Noraml Off  Reverse polarity Off. Only changes when RI<0.5 amps  Normal polarity Sta will be set to off. This is identical to Normal On |
| PR<A,B>N:Sta | Enum | Get: Is normal polarity on   |  |  | | --- | --- | | 0 | OFF | | 1 | ON | |
| PR<A,B>R:Sta | Enum | Get: Is reverse polarity on   |  |  | | --- | --- | | 0 | OFF | | 1 | ON | |

BPMs

|  |  |  |
| --- | --- | --- |
| X | Waveform  Double  Size 4101  Units mm |  |
| Y | Waveform  Double  Size 4101  Units mm |  |
| DATA:BV2 | Subarray  Size 32773 |  |

LONGIN

Read:

RA1

RA2

RD1

RD2

LONGOUT

Write:

SA1

SA2

SD1

SD2

Camera

Waveform, size 1447980, double

EBT-INJ-DIA-CAM-xx:CAM:ArrayData

Waveform, size 1000, double

EBT-INJ-DIA-CAM-xx:CAM:DistribX

EBT-INJ-DIA-CAM-xx:CAM:DistribY

DOUBLE

EBT-INJ-DIA-CAM-xx:CAM:X

EBT-INJ-DIA-CAM-xx:CAM:Y

EBT-INJ-DIA-CAM-xx:CAM:SigmaX

EBT-INJ-DIA-CAM-xx:CAM:SigmaY

YAG

Scope

Double:

P1, P2, P3, P4

TIMEBASE

VRANGE

Waveform, size 2002, Double:

TR1, TR2, TR3, TR4