PLC1 tag list

PLC #1 Tags

This PLC is used to control and monitor three bulk power supplies for MCORs. It can also reset MCOR crates. Below are the PLC control and monitor tags.

Analog Readbacks (Data type: REAL):

Description	Tag Name
PS1 SETPOINT IN	FLOATING_VALUES[1]
PS2 SETPOINT IN	FLOATING_VALUES[2]
PS3 SETPOINT IN	FLOATING_VALUES[3]
PS1 SETPOINT OUT	FLOATING_VALUES [11]
PS2 SETPOINT OUT	FLOATING_VALUES [12]
PS3 SETPOINT OUT	FLOATING_VALUES [13]
PS1 OUTPUT VOLTAGE	FLOATING_VALUES [21]
PS2 OUTPUT VOLTAGE	FLOATING_VALUES [22]
PS3 OUTPUT VOLTAGE	FLOATING_VALUES [23]
PS1 GROUND CURRENT	FLOATING_VALUES [31]
PS2 GROUND CURRENT	FLOATING_VALUES [32]
PS3 GROUND CURRENT	FLOATING_VALUES [33]

Control Bits (Data Type: DINT):

Description	Tag Name
MCOR RESET 1	REMOTE_CONTROL[0]. 3
MCOR RESET 2	REMOTE_CONTROL[0]. 4
MCOR RESET 3	REMOTE_CONTROL[0]. 5
FAULT RESET REMOTE	REMOTE_CONTROL[0]. 6
PS1 ON OFF REMOTE	REMOTE_CONTROL[1]. 1
PS2 ON OFF REMOTE	REMOTE_CONTROL[2]. 1
PS3 ON OFF REMOTE	REMOTE_CONTROL[3]. 1

Status Bits (Data Type: DINT):

Description	Tag Name
FLOW SWITCH 1 FAULT STAT	STATUS_BITS[0]. 1
FLOW SWITCH 2 FAULT STAT	STATUS_BITS[0]. 2
PS1 GROUND FAULT STAT	STATUS_BITS[1]. 0
PS1 OVERVOLTAGE STAT	STATUS_BITS[1]. 1

PS1 UNDERVOLTAGE STAT	STATUS_BITS[1].2
PS1 ON OFF STAT	STATUS_BITS[1].3
PS1 REMOTE/LOCAL MODE STAT	STATUS_BITS[1].4
PS1 RAMPING STAT	STATUS_BITS[1].5
PS2 GROUND FAULT STAT	STATUS_BITS[2].0
PS2 OVERVOLTAGE STAT	STATUS_BITS[2].1
PS2 UNDERVOLTAGE STAT	STATUS_BITS[2].2
PS2 ON OFF STAT	STATUS_BITS[2].3
PS2 REMOTE/LOCAL MODE STAT	STATUS_BITS[2].4
PS2 RAMPING STAT	STATUS_BITS[2].5
PS3 GROUND FAULT STAT	STATUS_BITS[3].0
PS3 OVERVOLATE STAT	STATUS_BITS[3].1
PS3 UNDERVOLTAGE STAT	STATUS_BITS[3].2
PS3 ON OFF STAT	STATUS_BITS[3].3
PS3 REMOTE/LOCAL MODE STAT	STATUS_BITS[3].4
PS3 RAMPING STAT	STATUS_BITS[3].5

Note: The ".#" at the end of the tag signifies the bit in the tag used. For example, to reset MCOR 1, you would momentarily set REMOTE_CONTROL[0], bit 3 high. To monitor for a Flow Switch 1 fault, you would monitor bit 1 of STATUS_BITS[0].