

OPTO22 MMIO Protocol (Ethernet)

Supported Series: OPTO22 SNAP PAC System

Website: <http://www.opto22.com/>

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	OPTO22 MMIO Protocol (Ethernet)		
PLC I/F	Ethernet		
Port no.	2001		

On-line simulator	Yes	Multi-HMI connect	Yes
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Device Address:

Bit/Word	Device type	Format	Range	Memo
B	STATE	DD	0 ~ 63	Read / Write
B	ONLATCH	DD	0 ~ 63	Read
B	OFFLATCH	DD	0 ~ 63	Read
B	ACTIVECOUNTER	DD	0 ~ 63	Read / Write
B	ONLATCH_READCLEAR	DD	0 ~ 63	Read
B	OFFLATCH_READCLEAR	DD	0 ~ 63	Read
B	HDD_STATE	DDdd	0 ~ 1531	Read / Write
B	HDD_ONLATCH	DDdd	0 ~ 1531	Read
B	HDD_OFFLATCH	DDdd	0 ~ 1531	Read
B	HDD_ONLATCH_CLEAR	DDdd	0 ~ 1531	Write
B	HDD_OFFLATCH_CLEAR	DDdd	0 ~ 1531	Write
B	ALARM_HI_STATE	DD	0 ~ 63	Read
B	ALARM_HI_ENABLE	DD	0 ~ 63	Read / Write
B	ALARM_LO_STATE	DD	0 ~ 63	Read
B	ALARM_LO_ENABLE	DD	0 ~ 63	Read / Write
B	SP_BIT	DD	0 ~ 63	Read / Write
DW	EU	DD	0 ~ 63	Read / Write
DW	COUNTS	DD	0 ~ 63	Read / Write
DW	MIN	DD	0 ~ 63	Read
DW	MAX	DD	0 ~ 63	Read
DW	MIN_READCLEAR	DD	0 ~ 63	Read

Bit/Word	Device type	Format	Range	Memo
DW	MAX_READCLEAR	DD	0 ~ 63	Read
DW	EU_4096	DDDD	0 ~ 4095	Read / Write
DW	COUNTS_4096	DDDD	0 ~ 4095	Read / Write
DW	MIN_4096	DDDD	0 ~ 4095	Read
DW	MAX_4096	DDDD	0 ~ 4095	Read
DW	MIN_READCLEAR_4096	DDDD	0 ~ 4095	Read
DW	MAX_READCLEAR_4096	DDDD	0 ~ 4095	Read
DW	COUNTERDATA	DD	0 ~ 63	Read
DW	COUNTERDATA_READCLEAR	DD	0 ~ 63	Read
DW	HDD_COUNTER	DDdd	0 ~ 1531	Read
DW	HDD_COUNTER_READCLEAR	DDdd	0 ~ 1531	Read
DW	HDD_BANK_STATE	DD	0 ~ 15	Read / Write
DW	HDD_BANK_ONLATCH	DD	0 ~ 15	Read
DW	HDD_BANK_OFFLATCH	DD	0 ~ 15	Read
DW	HDD_BANK_ONLATCH_CLEAR	DD	0 ~ 15	Write
DW	HDD_BANK_OFFLATCH_CLEAR	DD	0 ~ 15	Write
DW	MODULETYPE	DD	0 ~ 63	Read
DW	POINTTYPE	DD	0 ~ 63	Read / Write
DW	FEATURE	DD	0 ~ 63	Read / Write
DW	OFFSET	DD	0 ~ 63	Read / Write
DW	GAIN	DD	0 ~ 63	Read / Write
DW	HISCALE	DD	0 ~ 63	Read / Write
DW	LOSCALE	DD	0 ~ 63	Read / Write
DW	MODULETYPE_4096	DDDD	0 ~ 4095	Read
DW	POINTTYPE_4096	DDDD	0 ~ 4095	Read / Write
DW	FEATURE_4096	DDDD	0 ~ 4095	Read / Write
DW	OFFSET_4096	DDDD	0 ~ 4095	Read / Write
DW	GAIN_4096	DDDD	0 ~ 4095	Read / Write
DW	HISCALE_4096	DDDD	0 ~ 4095	Read / Write
DW	LOSCALE_4096	DDDD	0 ~ 4095	Read / Write
DW	ALARM_HI_SETPOINT	DD	0 ~ 63	Read / Write
DW	ALARM_HI_DEADBAND	DD	0 ~ 63	Read / Write
DW	ALARM_LO_SETPOINT	DD	0 ~ 63	Read / Write
DW	ALARM_LO_DEADBAND	DD	0 ~ 63	Read / Write
DW	SP_INTEGER	DDDDD	0 ~ 10239	Read / Write
DW	SP_FLOAT	DDDDD	0 ~ 10239	Read / Write
W	SP_STRING	DDDD	0 ~ 6300	Read / Write

Bit/Word	Device type	Format	Range	Memo
DW	PID_CV_IN	DDD	0 ~ 127	Read
DW	PID_CV_SP	DDD	0 ~ 127	Read
DW	PID_CV_OUT	DDD	0 ~ 127	Read / Write
DW	PID_CV_FF	DDD	0 ~ 127	Read / Write
DW	PID_CV_ERROR	DDD	0 ~ 127	Read
DW	PID_CV_P	DDD	0 ~ 127	Read
DW	PID_CV_I	DDD	0 ~ 127	Read
DW	PID_CV_D	DDD	0 ~ 127	Read
DW	PID_CV_INTEGRAL	DDD	0 ~ 127	Read
DW	PID_LSV_IN	DDD	0 ~ 127	Read / Write
DW	PID_LSV_SP	DDD	0 ~ 127	Read / Write
DW	PID_STATUS	DDD	0 ~ 127	Read / Write
DW	PID_STATUS_ON	DDD	0 ~ 127	Read / Write
DW	PID_STATUS_OFF	DDD	0 ~ 127	Read / Write
DW	PID_TUNE_P	DDD	0 ~ 127	Read / Write
DW	PID_TUNE_I	DDD	0 ~ 127	Read / Write
DW	PID_TUNE_D	DDD	0 ~ 127	Read / Write
DW	PID_TUNE_FF	DDD	0 ~ 127	Read / Write
DW	PID_CFG_MAX_OUT	DDD	0 ~ 127	Read / Write
DW	PID_CFG_MIN_OUT	DDD	0 ~ 127	Read / Write
DW	PID_CFG_SCAN_TIME	DDD	0 ~ 127	Read / Write
DW	PID_CFG_LOW_RANGE	DDD	0 ~ 127	Read / Write
DW	PID_CFG_HI_RANGE	DDD	0 ~ 127	Read / Write
DW	PID_CFG_ALG	DDD	0 ~ 127	Read / Write
DW	PID_CFG_MAN_MODE	DDD	0 ~ 127	Read / Write
DW	PID_CFG_FLAGS	DDD	0 ~ 127	Read / Write
DW	PID_CFG_FLAGS_ON	DDD	0 ~ 127	Read / Write
DW	PID_CFG_FLAGS_OFF	DDD	0 ~ 127	Read / Write
DW	PID_CFG_MM_IN	DDD	0 ~ 127	Read / Write
DW	PID_CFG_MM_SP	DDD	0 ~ 127	Read / Write
DW	PID_CFG_MM_OUT	DDD	0 ~ 127	Read / Write
DW	PID_SCALE_IN_LOW	DDD	0 ~ 127	Read / Write
DW	PID_SCALE_IN_HI	DDD	0 ~ 127	Read / Write
DW	PID_SCALE_OUT_LOW	DDD	0 ~ 127	Read / Write
DW	PID_SCALE_OUT_HI	DDD	0 ~ 127	Read / Write
DW	PID_SCAN_COUNTER	DDD	0 ~ 127	Read / Write

Wiring Diagram:

Diagram 1

Ethernet cable:

