FUJI ELECTRIC PYL LIMIT CONTROLLER

CONFIGURABLE AS EITHER A HIGH OR LOW LIMIT CONTROLLER

Fuji's PYL Limit Controller (1/16 DIN size) is an FM-approved instrument that can be configured either as a high limit or a low limit controller by a user. The PYL features universal input, a timer to count the duration time the setpoint is exceeded, and a register to retain the maximum temperature reached. The two alarm outputs, retransmission output, and communication function are available as optional features.





- Small, Space-Saving 1/16 DIN Package
- Sharp and Large 4-digit LED Display
- NEMA 4 Splash-Proof and Dust-Proof Front Panel
- Universal Input For Thermocouple, RTD and DC mV & V signals
- High or Low Limit Control
- Retransmission Output (Optional)
- Two-Alarm Relay Outputs (Optional)
- RS485 Communication Function (Optional) MODBUS, PC-Link & Ladder protocols are supported
- Digital Input (Optional)

PYL SPECIFICATIONS

MEASURED VALUE (PV) INPUT		
INPUT	1 point	
INPUT TYPE	Universal; can be selected by software	
SAMPLING PERIOD	500ms	
CONTROL OUTPUT		
OUTPUT	1 point	
OUTPUT TYPE	Relay contact output. Contact capacity: 3A at 240V AC or 3A at 30V DC (with resistance load)	
ALARM (OPTION)		
ALARM TYPES	22 types (waiting action can be set by software): PV high limit, PV low limit, Deviation high limit, Deviation low limit, Deenergized on deviation high limit, De-energized on deviation low limit, Deviation high and low limits, High and low limits within deviation, De-energized on PV high limit, De-energized on PV low limit, Fault diagnosis output, FAIL output	
ALARM OUTPUT	2 relay contacts. Relay contact capacity: 1A at 240V AC or 1A at 30V DC (with resistance load)	

RETRANSMISSION OUTPUT OPTION		
OPTION	The retransmission output is provided only when the "A" option is specified	
OUTPUT SIGNAL	4-20mA DC	
MAXIMUM LOAD Resistance	600Ω or less	
OUTPUT ACCURACY	±0.3% of span (at 23±2°C ambient temperature)	
DIGITAL INPUT (OPTION)		
OPTION	The contact inputs are provided only when the "D" option is specified.	
FUNCTION	Resetting "exceeded status"	
INPUT	2 points (with the shared common terminal)	
INPUT TYPE	Non-voltage contact or transistor contact input	
CONTACT CAPACITY	At least 12V/10mA	

EMC STANDARDS

PYL SPECIFICATIONS, CONTINUED

COMMUNICATION FUNCTION OPTION		
OPTION	The communication function is provided only when the "R" option is specified	
COMMUNICATION Protocol	Ladder communication: Used for communication with PLC. MODBUS communication: Used for communication with equipment featuring the MODBUS protocol	
COMMUNICATION INTERFACE	Applicable standards: Complies with EIA RS-485 Number of controllers that can be connected: 31 Maximum communication distance: 1,200m Communication method: Two-wire half-duplex, start-stop synchronization, non-procedural Baud rate: 2400, 4800, or 9600 bps	
SAFETY AND EMC STAN	IDARDS	
SAFETY	Confirms to IEC1010-1: 1990 & EN61010-1: 1992 Certified for FM-3810 and FM-3545	

Complies with EN61326

POWER SUPPLY AND ISOLATION		
POWER SUPPLY	Voltage: Rated at 100-240VAC (±10%) Frequency: 50 or 60Hz	
MAXIMUM POWER Consumption	8VA max. (4W max.)	
CONSTRUCTION, MOUNTING, AND WIRING		
CONSTRUCTION	Splash-proof IP65 for front panel when not mounted side-by-side. Casing: ABS resin and polycarbonate. Case color: Black	
MOUNTING	Flush panel mounting	
TERMINALS	Screw terminals	
ENVIRONMENTAL CONDITIONS		
AMBIENT TEMPERATURE/ HUMIDITY	0-50°C (0-40°C when mounted side-by-side) 20-90% RH (no condensation allowed)	

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PYL ORDERING INFORMATION



D = digital Input

R = RS485 Communication

Information subject to change without notice. Prices in	n USD.