(An ISO 9001: 2015 & Crisil Certified)

FLP PID CONTROLLER (PFLP-W-P6100)

❖ FEATURES :

- Flameproof enclosure suitable for hazardous area
- Can be used in corrosive area also
- Flexible to install any standard brand / sized instruments i.e. 48mm X 48mm
- Control Types: Full PID with Pre-tune, Self-tune, Manual Tuning, or On-Off control. Heat only or heat & cool.
- Auto/Manual Selectable from front panel or external selection via digital input, with bumpless transfer.
- Output Configuration Up to 3 possible, for control (Heat & Cool),
 Alarm or retransmit of Process Value or Set point.
- Alarm 1 & 2 Types Process high, process low, SP deviation, band, logical OR with adjustable hysteresis. Also 1 loop alarm for process security.
- Human Interface 4 button operation, dual 4 digit 13mm & 10mm high LED displays with choice of Red/Red, Green/Green or Red/Green plus 5 LED indicators.
- Manual or PC Configuration Off-line configuration from serial port to dedicated config socket (comms option not required).
- Transmitter Power Supply (Option) 24VDC (910 Ohm minimum load resistance)



TECHNICAL SPECIFICATIONS:

- Product Name : FLP Digital PID Controller
- Model No: PFLP-W-P6100-0000000 (Choose from list at bottom as per requirement)
- Temperature & RH 0 to 55°C (-20 to 80°C storage), 20% to 95%RH non-condensing.
- **Power Supply**: 100-240VAC 50/60Hz (standard) 7.5VA;

20-48VAC 50/60Hz (option) 7.5VA &

22-65VDC (option) 4W.

- Front Panel Protection: IEC IP66 (Behind panel protection is IP20).
- Standards: CE, UL & ULC. Recognized.

❖ INPUTS:

- Thermocouple J, K, C, R, S, T, B, L, N & PtRh20% vs PtRh40%. Scalable within selected range.
- **RTD** 3 Wire PT100, 50ohm per lead maximum (balanced). Scalable within selected range.
- **DC Linear**: 0-20/4-20mA, 0-50/10-50mV, 0-5/1-5/0-10/2-10V. Scalable -1999 to 9999, decimal point selectable.
- Impedance >10Mohm for Thermocouple and mV ranges, 47Kohm for V ranges and 50hm for mA ranges.
- **Accuracy** +/- 0.1% of input range +/- 1 LSD (T/C CJC better than 1°C).
- **Sampling** 4 per second, 14 bit resolution approximately.
- Sensor Break Detection <2 secs (except zero based DC ranges), control O/P's turn off, high alarms activate for T/C
- and mV ranges, low alarms activate for RTD, mA or V ranges.
- Remote Set point (Option) 0-20mA, 4-20mA, 0-100mV, 0-5V, 1-5V, 0-10V, 2-10V or Potentiometer (2Kohm mininum) Scalable 1999-9999. Local/Remote set point selected from digital input (supplied as part of Full RSP) or front panel.

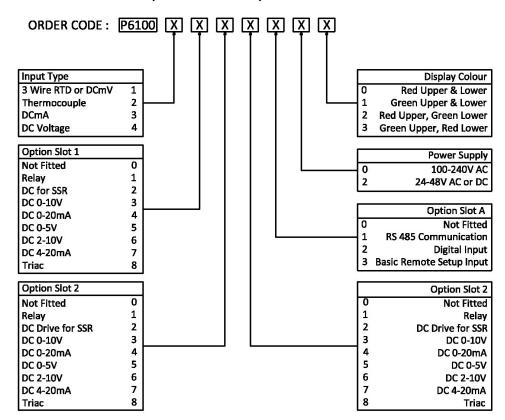
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OUTPUTS:

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- Control & Alarm Relays Contacts SPDT 2 Amp resistive at 240V AC, >500,000 operations. Output #1 module is now field replaceable
- Control SSR Outputs Drive capability >10V DC in 500ohm min
- Solid State (Triac) Outputs 0.01 to 1 Amp AC 20 to 280V, 47 to 63Hz.
 - **Control DC Outputs** 0-20/4-20mA into 500ohm max, 0-10/2-10/0-5V into 500ohm min. with 2% over and under drive applied to control outputs. Accuracy typically +/- 0.25%.
 - Communications 2 Wire RS485, 1200 to 19200 Baud, Modbus & ASCII protocol selectable).
 - Digital Input Selects between 2 Setpoints or Auto/Manual control using volt free or TTL input
- APPLICATIONS: Mainly used where Hazardous Chemicals are used and high temperature is there.

MODEL SELECTION (ORDERING CODE)



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CONSULTING ENGINEER—PANEL MANUFACTURER---CONTROL SYSTEM INTEGRATOR---E-COMMERCE