DIGITAL PROMOTERS (INDIA) PRIVATE LIMITED
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DIGITAL TEMPERATURE CONTROLLER masibus MODEL PID 5030

Features:

- One unit accepts many input types
- Input and Output type field configurable.
- Configuration, Programming, Operation & Calibration by front panel keys
- Three level security access by DIP switches
- Independent display of set-point, process variable and control output/ value position.
- Remote set-point, Transmitter power supply & two configurable auxiliary relays
- Digit shift key for speedier setting.
- RS232 / 485 communication port option for Remote Programming & Data Acquisition
- Sealed membrane keyboard

Specifications:

Display	4 digit 0.56" Red LEDs for process variable. 4 digit 0.39" Red LEDs for set point.
Input	Thermocouple types B, E, J, K, R, S & T (ANSI standard) RTD Pt-100, 3-wire. 4-20 mA or 1-5V DC linear. **Input open protection :** upscale. **Common Mode Rejection :** 120 dB@ 50Hz. **Normal Mode Rejection :** 60 dB@ 50Hz.
Input Range	Thermocouple B 100 to 1820 C, E 200 to 1000C J 200 to 1200 C, K 200 to 1372 C R 0 to 1768 C, S 0 to 1768 C T 200 to 400 C, RTD Pt-100 (3 wire) -199.9 to 850 C Linear 4-20 mA 999 to 9999, Field scalable 1-5V -1999 to 9999Field scalable
Accuracy	± 0.1% of span, ± 1 Count.
Controls	Set, Digit shift, Increase, Decrease and Enter keys for configuration/programming Data access level programmable for operator / supervisor level by DIP switch at back. Data lock provision by DIP at back to avoid unauthorized data changes.
Control Parameters	**Proportional Band** : 1 to 400 (Field Configurable as Absolute, % SP, % SPAN) **Integral time (Reset)** : 1 to 1800 seconds. (0-OFF) **Derivative time (Rate)** : 1 to 600 seconds. (0-OFF). Special feature of proportional band shift and integral inhibit for batch operation.
Output	**Position Proportional** : 2 SPDT Relays rated 2A@230VAC having dead band, with & without Potentiometer feedback. **Resistance feedback** - 100 Ω to 1000 Ω **Current feedback** - 4-20 mA DC.
Calibration	Zero and span of Process Variable, Remote set point and valve position are adjusted by digital calibration through front panel keys. No trimpots
Environmental	IP54 front, IP20 enclosure
Physical	**Case** : M.S. powder coated with ABS molded bezel and membrane key pad. **Terminals** : 35 angled type, accepts up to 2.5 sq.mm wire. **Bezel size** : 96mm x 96mm. **Panel cutout** : 92 x 92 mm. **Depth behind panel** : 220 mm max. Including terminals. **Control Output** : Field selectable from one of the following - Volt / Current (4-20mA /0-20mA /0-5V /1-5V) or Pulse output (Slow cycle pulse : cycle time 4 sec. /Fast cycle pulse : cycle time 0.4 sec.) Heat Cool : 2 SPDT relays rated at 2A@230VAC with dead band. (forward/reverse) **Dual Auxilliary Relays** : Front panel configurable for control or for **Absolute/Deviation alarm**. Relays configurable for 'on above' and 'on below'. **Transmitter Power Supply** : 24VDC @30mA
Options	**Retransmission** : 4-20mA Isolated (not available in case of voltage / current control output). **Serial communication** : RS 232 C/485 with MODBUS RTU protocol. Explosion proof enclosure.
General	**Power supply** : 110V/230V AC, 50 Hz **Ambient** : 0 to 50 C **Humidity** : up to 95% RH (Non Condensing) **Power consumption** : Less than 15 VA

Specifications are subject to change without notice due to continuous design improvement.

For further information/clarification send mail to info@digitalpromoters.com ; digitalpromoters@gmail.com
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Last modified: 6 Jan 2005