

TAIWAN, THAILAND, TUNISIA, TURKEY, UNITED KINGDOM, USA, VIETNAM

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Description

KOBOLD's MPT is a versatile, easy to use, compact display built for a wide range of applications. Programming is exceptionally easy and can be done directly in the field through a variety of options. It can be done via buttons on the front as there are no switches or jumpers, nor is there a need to open the case. It also includes a convenient 'copy' function that comes standard. The MPT display intensity is adjustable to allow for various lighting conditions, including direct sunlight. It also offers current overload protection that resets itself once the fault is removed. Installation is quick and easy thanks to locked mounting brackets and removeable screw terminal connectors.

Specifications*

| Display: | 1.20" (30.5 mm) or 0.56" (14.2 mm) | | | |
|----------------|---|--|--|--|
| | Red LED, 4 Digits (-1999 to 9999) | | | |
| Display | | | | |
| Intensity: | Eight User Selectable Levels | | | |
| Front | | | | |
| Panel: | NEMA 4X, IP65; Panel Gasket Provided | | | |
| Programming | | | | |
| Methods: | Four Front Panel Buttons, Cloning with 'Copy' Feature, PC with MeterView | | | |
| | or LabVIEW Software, and Modbus [®] | | | |
| | Registers. Certified LabVIEW | | | |
| | Driver Available | | | |
| Noise Filter: | Programmable 2 to 199 (0 will Disable | | | |
| | Filter) | | | |
| Display Update | | | | |
| Rate: | Process/RTD: 3.7-5/sec; TC: 1.8-2.5/sec | | | |
| Max/Min | | | | |
| Display: | Stored until Reset by User or Meter is | | | |
| | Turned Off | | | |
| Password: | Restricts Modification of Programmed | | | |
| Non-Volatile | Settings | | | |
| Memory: | Settings Stored for a Minimum of 10 Years | | | |
| Power Options: | 85-265 VAC, 50/60 Hz; 90-265 VDC, 20 W | | | |
| | Max. or 12-36 VDC; 12-24 VAC, 6 W Max. | | | |
| Required Fuse: | UL Recognized, 5 A Max., Slow-blow; up to | | | |
| | 6 Meters May Share One Fuse | | | |
| Normal Mode | | | | |
| Rejection: | 64 dB at 50/60 Hz | | | |
| Isolation: | 4 kV Input/Output-to-power Line; 500 V Input-to-output or Output-to-24 VDC | | | |
| | Supplies | | | |
| Operating | ouppilos | | | |
| Temperature: | 32149 °F | | | |
| Storage | | | | |
| Temperature: | -40185 °F | | | |
| Relative | | | | |
| Humidity: | 0 to 90% Non-condensing | | | |
| Connections: | Power & Signal: Removable Screw | | | |
| | Terminal Blocks accept 12 to | | | |
| | 22 AWG. Serial: RJ11 Header, Standard | | | |
| | on all Meters | | | |



| Enclosure: | 1/8 DIN, High Impact Plastic, | | |
|-----------------|------------------------------------|--|--|
| | 94V-0, Color; Gray | | |
| Weight: | 9.5 oz (269 g) (Including Options) | | |
| UL File Number: | E160849; 508 Industrial Control | | |
| | Equipment | | |
| Warranty: | 3 years Parts & Labor | | |

Process Inputs

| Inputs: | Field Selectable, 4-20 mA, 1-5 V, 0-10 V | | |
|-----------------------|--|--|--|
| Accuracy: | ± 0.05% FS ± 1 Count; Square Root: ± 0.1% FS ± 2 Counts | | |
| Function: | Linear or Square Root | | |
| Low-Flow Cutoff: | 0 to 9999 (Disables Cutoff Function) | | |
| | Up to 3 Decimals, (x.xxx, xx.xx, xxx.x, or xxxx) | | |
| Calibration: | Scale without Signal or Calibrate with Signal Source | | |
| Calibration Range: | User Programmable over Entire Range | | |
| | of Meter | | |
| Input Impedance: | Voltage Range: Greater than 1 $\text{M}\Omega$ | | |
| Current Range: | 50-100 Ω , Varies with Resettable Fuse Impedance | | |
| Input Overload | Protected by Automatic Reset Fuse | | |
| Temperature Drift: | ± 50 PPM/°C | | |
| Transmitter | | | |
| Supply: | Isolated, One or Two Transmitter Supplies | | |
| P1: | 24 VDC ± 10% @ 200 mA Max. | | |
| P1 & P2: | 24 VDC ± 10% @ 200 mA & 40 mA Max. | | |

*Except where noted all specifications apply to operation at 77 °F.

Temperature Inputs

| Factory Calibrated, Field Selectable: Type J, K, T, or E Thermocouples and 100 Ω Platinum RTD (0.00385 or 0.00392 Curve) |
|---|
| 1°; Type T: 1° or 0.1° |
| |
| Automatic |
| |
| ± 2 °C Maximum |
| |
| Programmable to \pm 19.9°. This Parameter Allows the User to Apply an Offset Value to the Temperature being Displayed |
| |
| Greater than 100 k Ω |
| All Relays and Alarm Status LEDs go to Alarm State |
| |

| Туре | Range | Acc. | Range | Acc. | | |
|------------------|---------------|--------|---------------------------------|--------|-------------|------|
| J | -581,382 °F | ±2°F | -50750 °C | ±1°C | | |
| к | K -582,300 °F | | K -582,300 °F ± 2 °F -50 | | -501,260 °C | ±1°C |
| т | -292700 °F | ± 2 °F | -180371 °C | ±1°C | | |
| E | -581,700 °F | ± 2 °F | -50927 °C | ±1°C | | |
| RTD -3281,382 °F | | ±1°F | -200750 °C | ± 1 °C | | |

Relays

| Rating: | 2 Form C (SPDT); Rated 3 A @ 30 V _{DC} or 3 A @ 250 V _{AC} Resistive Load; 1/14 HP @ 125/250 V _{AC} for Inductive Loads | |
|-----------------------|--|--|
| Deadband: | 0-100% FS, User Selectable | |
| High or Low Alarm: | Lloor May Brogrom any Alarm for High or | |
| Aldini. | User May Program any Alarm for High or Low | |
| Relay | | |
| Operation: | Automatic (Non-latching) Latching Pump Alternation Control | |
| Relay Reset: | User Selectable via Front Panel Buttons or PC | |
| | 1) Automatic Reset Only (Non-latching) | |
| | 2) Automatic Plus Manual Reset at any Time (Non latching) | |
| | Time (Non-latching) 3) Manual Reset Only, at any Time (Latching) | |
| | 4) Manual Reset Only After Alarm Condition has Cleared (Latching) | |
| Automatic | | |
| Reset: | Relays Reset when Input Passes the Reset Point | |
| Manual Reset: | Front Panel Button, MeterView, Modbus [®] Registers | |
| Time Delay: | 0 to 199 Seconds, On and Off Delays; Programmable | |
| | | |

| for Each R Energized Condition. Failure, Rel State When Pow Meter, Rela State of the the Meter nsmitter Outp 1.00 to 23 Scaling Alle | ut .00 mA; Reverse owed | | | |
|--|---|--|--|--|
| Meter, Rela State of the the Meter nsmitter Outp 1.00 to 23 Scaling Alle Factory Cal | ays will Reflect the e Input to ut .00 mA; Reverse owed | | | |
| 1.00 to 23 Scaling Alle Factory Cal | .00 mA; Reverse owed | | | |
| Factory Cal | | | | |
| 110 1 | librated 4.00 to 20.00 | | | |
| 50 PPM/°C Analog Out | ± 0.1% FS ± 0.004 mA 50 PPM/°C Analog Output Drift is Separate | | | |
| from Input Drift 500 V Input-to-output or Output-to-24 VDC Supplies; 4 kV Output-to-power Line | | | | |
| 35 VDC Maximum | | | | |
| | Loop Resistance | | | |
| | Maximum | | | |
| 10 Ω | 700 Ω | | | |
| | 1200 Ω | | | |
| - | nd EIA-485 with | | | |
| PDC and Modbus [®] RTU | | | | |
| | | | | |
| PDC Protoc | col: 0 to 99, rotocol: 1 to 247 | | | |
| PDC Protoc | rotocol: 1 to 247 | | | |
| PDC Protoc Modbus [®] P 300 to 19,2 Programmat | rotocol: 1 to 247 | | | |
| PDC Protoc Modbus [®] P 300 to 19,2 Programmak Transmitter A 8 Bit (1 Star | rotocol: 1 to 247 00 bps ble 0 to 199 ms, Nways on for RS-422 t Bit, 1 Stop Bit) | | | |
| PDC Protoc Modbus [®] P 300 to 19,2 Programmak Transmitter A 8 Bit (1 Star None (2 Sto Odd (Modb | rotocol: 1 to 247 00 bps ble 0 to 199 ms, Nways on for RS-422 t Bit, 1 Stop Bit) op Bits), Even, or us [®] Only; PDC | | | |
| PDC Protoc Modbus [®] P 300 to 19,2 Programmak Transmitter A 8 Bit (1 Star None (2 Sto Odd (Modb Protocol do | rotocol: 1 to 247 00 bps ole 0 to 199 ms, Nways on for RS-422 t Bit, 1 Stop Bit) op Bits), Even, or | | | |
| | from Input 500 V Inpu Output-to- 4 kV Outpu 35 VDC M Loop Resis Minimum 10 Ω 100 Ω s EIA-232, an | | | |

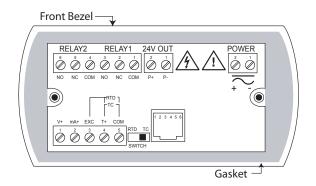


Order Details (Example: MPT-12512E)

| Model | Function | Display Size | Operating Voltage | Sensor Supply | Output | Options |
|-------|-----------------|---------------------------------------|---|---|---|---|
| MPT | 1 = Rate | 1. = 0.56" 2. = 1.2" | 3. . = 12-36 V _{DC} 5. . = 85-265 V _{AC} 5. . = 85-265 V _{AC} | 0 = without 0 = without 1 = 24 VDC 2 = Dual 24 VDC | 0 = None 2 = 2x SPDT Relays 3 = 4-20 mA 4 = 2x SPDT Relays & 4-20 mA 3 = 4-20 mA | B = RS-422/485 Serial Adapter E = Custom Set-up* F = USB to Software Adapter G = Meter Copy Cable X = NEMA 4X Enclosure |

*Please specify input/output vs display parameters as a note on your order (i.e. 4 mA input = display 0, 20 mA input = display 100)

Connections



Dimensions: inches (mm)

