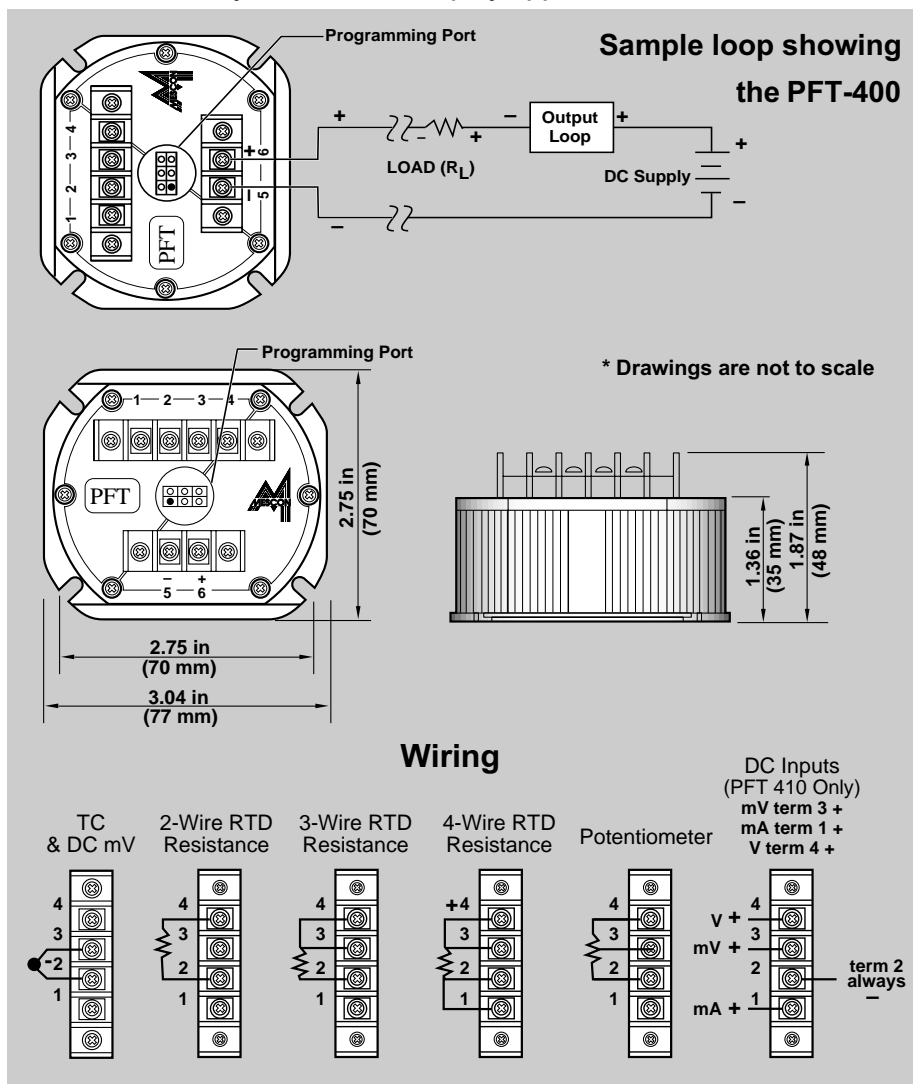


# Programmable Field Mounted Transmitters

## JUST-PC™ TECHNOLOGY

### Series PFT-400

The Mescon PFT-400 series is a unique PC-programmable 2-wire transmitter family. The units feature a state of the art micro-processor based design which enables full configuration with Mescon's JUST-PC™ Technology using the MESCONfigurator™, user friendly configuration software. This combination eliminates the need for jumpers, calibrators, screw-drivers and hand-held programmers. The PFT-400 is the field mounted version of an entire family of products. Other JUST-PC™ technology instruments are available for thermal-head, high density DIN rail and low density DIN rail with display applications.



## STANDARD FEATURES:

- Full featured and highly accurate.
- JUST-PC™ Configuration technology. No Power Supply needed to program.
- MESCONfigurator™, user friendly configuration software.
- Full software programmability of sensor type and input range.
- Linearized 4-20mA current loop output for T/C, RTDs, mV, Potentiometers and Resistance Inputs.
- Custom Linearization in minutes.
- 1000 Volts I/O isolation.
- RFI/EMI Protected, CE marked.



**MESCON**  
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# Programmable Field Mounted Transmitters

## JUST-PC™ TECHNOLOGY

### Series PFT-400

**Configuration:** All Input types and range parameters are easily configurable with Mescon's user friendly **JUST-PC™** Technology, which requires no power supply for configuration using the PA-400 programming adapter and the **MESCONfigurator™** Graphic User Interface software under Windows® operating systems through the PC's RS232 serial port.

## SPECIFICATIONS:

### INPUT CONFIGURATIONS

Thermocouples .....	Most standard types and all special types using customer defined tables and polynomials. (PFT-400)
RTD .....	2, 3, and 4 wire, Pt-100, Callandar-Van-Dusen adaptation, User defined sensor types available. (PFT-400)
Potentiometers .....	to 20 K $\Omega$ (PFT-400)
Resistance .....	to 400 $\Omega$ (PFT-400)
DC-mV .....	-10 to 100 mV (PFT-400)
DC-mV .....	-30 to 300 mV (PFT-410)
DC-Volts .....	Up to 10 Volts (PFT-410)
DC-mA .....	Up to 50 mA (PFT-410)

### GENERAL SPECIFICATIONS

Minimum Range .....	2 mV. Limited mostly by input signal quality.
Output .....	4-20mA isolated loop powered.
Supply Voltage .....	9-40 VDC (@ no load). Reverse polarity protected.
Maximum Load .....	$R_{max} = (V_{supply} - 9V) \div 20mA$
Operating Temperature .....	-40°C to +85°C
Storage Temperature .....	-55°C to +125°C
Humidity .....	0-95% RH, non-condensing.
Response Time .....	0.3 seconds, to 90% of input. (> 3 updates per second).
Damping Factors .....	Programmable 0.0 to 64.0 seconds, to 0 - 120% of input range, using MESCONfigurator™ software interface.

### GENERAL SPECIFICATIONS (continued)

Stability .....	Better than $\pm 0.1\%$ of span for 12 months.
I/O Isolation .....	1000 VDC or peak AC.
RFI Protection .....	< 0.5% effect of span at 20-1000 MHz and at field strength of 20V/m. $\text{C} \text{E}$ marked.

### PERFORMANCE SPECIFICATIONS

Output Resolution .....	0.015% of span (2.5 $\mu$ A).
Output (D/A) Linearity .....	Better than 0.02% of output span.
Sensor Linearization .....	Better than 0.1°C for RTDs. Better than 0.2°C for T/C.
Cold Junction Compensation .....	Automatic to within $\pm 0.5^\circ\text{C}$ for all T/C.
Temperature Stability .....	0.012%/°C combined ZERO and SPAN.
Supply Voltage Effect: .....	< $\pm 0.002\%$ per Volt.
Calibration .....	Automatic. Unit includes all of the calibration parameters. It performs periodic "ZERO", "SPAN", self-test, and auto calibration.
Input Linearity .....	Better than 0.01% of span (mV input).

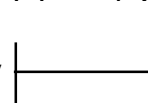
*All specifications are subject to change without notice.*

### ORDERING INFORMATION

PFT - 4 X 0

PFT 4 X 0 Model

0 = Temp  
 1 = DC - mA - mV - V  
 3 = Frequency  
 4 = Thermistor



EXP-200	Explosion Proof Housing
MTG-203	DIN rail mounting adapter
MTG-204	2" Pipe mounting bracket for EXP-200
PA - 400	Programming Adapter (RS232)

**Please request our ordering and calibration diskette describing the rest of Mescon's products.**

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