2-Wire µP-Based Head-Mount Transmitter

FZ7CR

- **Microprocessor-Based**
- **Pt100 RTD Input**
- **Fully-Programmable**
- **Fully-Linearized**
- **RFI-Immune**
- **High Accuracy (0.1%)**
- **Small Size (1.7" dia. x 1"H)**
- **5-Year Warranty**
- **Optional Plug-In Loop-Powered Readout**
- **Optional Connection Head w/Window**
- **Optional ATEX Intrinsic Safety Approval**

The **FZ7CR** is one of the smallest, most advanced two-wire head-mounting µP-based transmitter available. Able to fit in a small, standard connection head, it is quickly and easily programmed to your exact PT100 RTD requirements via your personal computer and our "Point 'N Click" Software/Interface - allowing you to have a single transmitter to meet all of your Pt100 requirements.

The **FZ7CR** is scaleable from -200°C to the upper limit of Pt100 RTDs (850°C). Features include: 25°C (40°F) minimum span, complete linearization; selectable 4-20 mAor 20-4 mAoutput; wide power supply capability (13-40 VDC); selectable upscale/downscale; total RFI-immunity (DC to 1 GHz.); high loop drive capability (600 ohms @ 24 VDC); and a five (5) year warranty against failure. It even has dual 10-character alphanumeric tagging capability. It is also available with optional ATEX Approval for Intrinsic Safety.
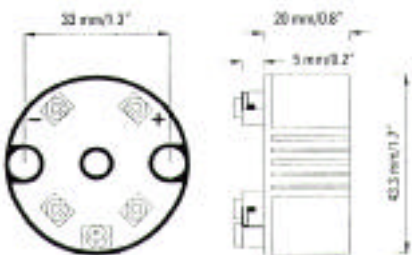
Optional features of the **FZ7CR** include a loop-powered plug-in LCD readout for local display of the measured temperature. There is also a small DAN connection head with a glass window so you can read the display without opening the head. For explosion-proof applications, we also have a large connection head with glass window and special large (1/2"H digits) plug-in loop-powered LCD readout.

There is no longer any reason to stock several different transmitters when a single, low-cost, high accuracy unit can meet all of your requirements. Easily programmed in less than one minute, the **FZ7CR** is THE single transmitter that can be used for all of your different Pt100 range requirements.

SPECIFICATIONS

Input:RTD (= 0.00385):	Pt100 (-200 to 850°C)
Minimum Span:	25°C (45°F)
Output:	4-20 or 20-4 mADC
Linearization:	Selectable On/Off
Supply:	10-40 VDC, Polarity-Protected
Supply Effect:	0.02%/V
Zero Drift:	0.02%/°C
Span Drift:	0.01%/°C
Long Term Drift:	0.1%/Year
Excitation Current (RTD):	0.1 mA
Sensor Lead Res. (RTD):	500 Ohm, Max.
Open Circuit Detection:	Upscale/Downscale, Selectable
Tagging:	Dual Register 10-Character, Alphanumeric
Load Capability:	(V_{bat}-10V)/20mA (700 @ 24 VDC)
Startup:	30 Seconds
Warmup:	5 minutes
RFI-Effect:	<1% (DC to 1 GHz.)
Amb. Op. Temp.:	-30° to 85°C
Storage Temp.:	-40° to 100°C
Enclosure:	43mm dia. x 29mm H
Enclosure w/Readout:	43 mm dia. x 36mm H
Enclosure Material:	Zamac 5, epoxy-coated

DIMENSIONS

ORDER INFORMATION

Model	Options
FZ7CR	**D / IF / CW / EX / BI**

-D	**Plug-In Loop-Powered LCD Readout**
-IF	**IF700 Interface and "Point 'N Click" Software**
-CW	**Small Connection Head with Glass Window**
-EX	**ATEX IS Approval (KEMA 03ATEXQ3153)**
-BI	**Explosion-Proof Housing with Large Readout**

FUZYPRO
e-mail: fuzypro@fuzypro.comt
web: www.Fuzypro.com