

INTEGRAL TEMPERATURE TRANSMITTER SERIES

Introduction

The series is an on-site installed temperature transmission unit which is consisted of temperature transmission module, thermocouple or thermal resistance. Adopts two-wire with non-linear correcting circuit to measure temperature among $-220\sim+600^{\circ}\text{C}$ of medium such as liquid, gas, etc. Output linear $4\sim 20\text{mA}$ current signal to display, recording instrument or computer.



Application

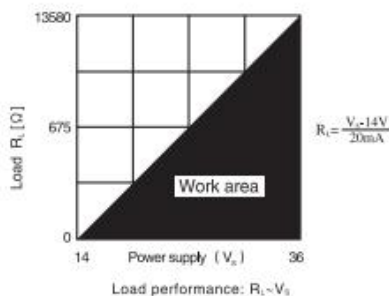
The series is widely used in industries and scientific area such as petroleum, chemical, textile, metallurgy, mechatronics, power supply, aeronautical, food and medical, etc. Combine with moving-coil instrument, digital display instrument, recording instrument, regulator or computer to consist various of temperature measuring system.

Features

1. Adopts cold-end compensation circuit of high accuracy, compensation accuracy of full temperature zone can be $\pm 0.5^{\circ}\text{C}$.
2. Unique non-linear correcting circuit, linear relationship between output signal and measured temperature..
3. Accuracy is secured among full operation temperature zone with self-correcting circuit of drift.

Technical Reference

Measuring Accuracy	$\pm 0.1\% \text{ F.S} / \pm 0.2\% \text{ F.S} / \pm 0.5\% \text{ F.S}$
Influence of Environment Temperature	$1.0 = \pm 0.05\% \text{ F.S}/^{\circ}\text{C}, 0.2 = \pm 0.02\% \text{ F.S}/^{\circ}\text{C}, 0.5 = \pm 0.05\% \text{ F.S}/^{\circ}\text{C}$
Output	Two-wire, $4\sim 20\text{mA}$
Power Supply	$14\sim 34\text{VDC}$, rated voltage: 24VDC
Load Capacity	$(24\text{VDC}) 0\sim 500\Omega$



Deviation of Cold-end Compensation: $< 1^{\circ}\text{C}$ (operation temperature)

Operation Temperature: $-25\sim +85^{\circ}\text{C}$

Storage Temperature: $-25\sim +125^{\circ}\text{C}$

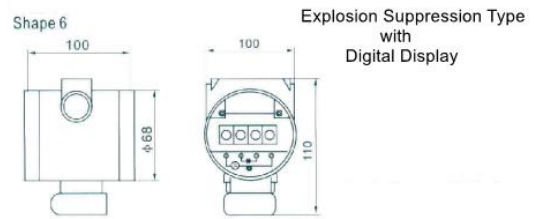
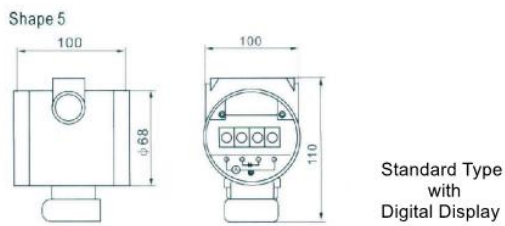
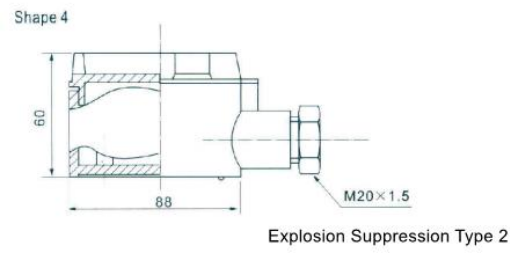
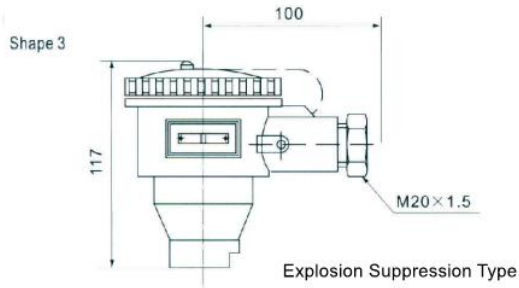
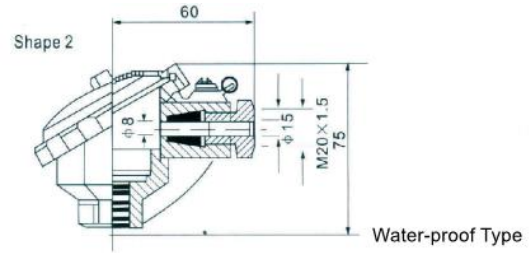
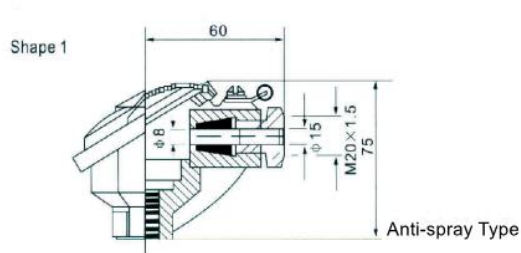
Relative Humidity: $5\% \sim 95\%$

On-site Accuracy: $\pm 2.5\%$ (scale)

$\pm 1.0\%$ (digital display)

Consumption: $< 0.5\text{W}$

Size of Junction Box



Ordering Code

