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MCG 300 Resistance Temperature Detector

Resistance Temperature Detector

The MCG 300 Resistance Temperature Device (RTD) measures spot temperature by outputting a resistance change to a gauge or transmitter. This change in resistance, which is directly proportional to temperature, is detected by a precision input bridge circuit in the transmitter.

In addition to two element leads, a third reference lead is provided. The reference lead is used to remove lead wire resistance from the measurement of the temperature elements.

Specifications

Construction:
Stainless Steel Probe*
*Other Materials Available

Element Lengths:
12” through 60” standard up to 100’ flexible available

Mounting Hardware:
Available for Cone Roof, Floating Roof & High Pressure Vessels

Standard Thermowell Connections:
Up to 1- 1/2” NPT, UP to 3” ANSI, Flange

Accuracy:
0.5ºF

Calibrations:
100 ohm Copper, 100 ohm DIN Platinum, 100 ohm “Platinum Characterized” Copper

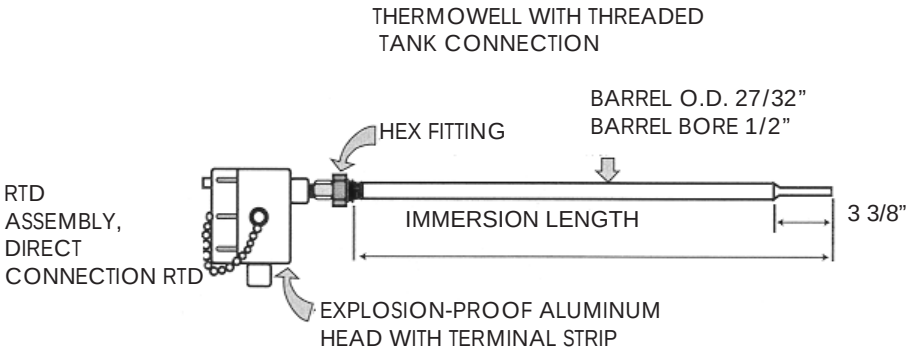
Features

- Accurate Temperature Measurement
- Temperature Averaging
- Temperature Conversions

Applications

- Temperature measurement for inventory process control
- Volume correction for custody transfer applications
- Corrected volumes

Dimensions



All designs subject to change. Certified dimensions and specifications available upon request.

MCG 300 Ordering Guide

MCG 300 Resistance Temperature Detector

Includes: 304 Stainless Steel Housing, 1/2” NPT Connection

Model Number Selection:

The model number will consist of a base number **MCG 300** followed by 10 digits. These digits will represent 6 sets of option tables:

MCG 300 - AB - CD - EF - GH - IJ

AB – Length	
01	12” Long *(30 cm)*
02	24” Long *(60 cm)*
03	36” Long *(90 cm)*
04	48” Long *(120 cm)*
05	18” Long *(45 cm)*

CD – Head	
01	None
02	With Head (Condulet)

EF – Well (3/4” NPT)	
01	None
02	Standard
03	Machined
04	2” - 300# Stainless Steel RF Flange
05	Van Stone Connection
06	2” - 150# Stainless Steel RF Flange

G – Calibration	
0	Standard Single Element
1	Dual Element

H – Calibration	
1	Pl Standard Curve (.3850 coefficient, European)
2	Pl American Curve
3	Cu (option 01 is recommended for greater temperature range)

IJ – Spring Loading	
01	Normal
02	Spring Loaded