

Digital Temperature Indicators, Battery Powered



822/823 SERIES

- 5 year minimum battery life
- Large 4-digit LCD display
- Utilizes a PT100 Ω RTD Class A element for temperature sensing
- IP 65 / NEMA 4 rated environmental protection
- All 316 Stainless Steel construction
- Easy installation with various mounting configurations

APPLICATIONS

- Replacement for bimetal, liquid bulb and glass thermometers
- Pharmaceutical
- Food preparation
- Utilities and municipal refineries
- Chemical and petrochemical plants
- Paper mills
- Hydraulics

SPECIFICATIONS

Temperature ranges	Standard ranges from -58 °F to 392 °F (-50 °C to 200 °C)
Temperature sensor	RTD (PT100 DIN EN 60751, Class A)
Housing material	316 Stainless Steel
Probe material	316 Stainless Steel standard
Maximum pressure	500 psig (on probe)
Power requirement	Lithium battery (3.6 V)
Supply effect	0.005%/V
Accuracy	$\leq 0.22\%$ full scale; $\leq 0.1\%$ full scale optional
Display	4-digit LCD
Display resolution	$\pm 0.02\%$ F.S. ± 1 digit
RFI effect	1% or less typical
Temperature ranges	Ambient -40 °F to 176 °F (-40 °C to 80 °C) Effect <0.01% FS/ °C Storage -58 °F to 185 °F (-50 °C to 85 °C)
Environmental protection	NEMA 4/ IP 65

Thermowells are recommended for pressure, corrosive fluids and high velocity applications, see pages 46-48.



WARNING: This product can expose you to chemicals including Chromium (VI) and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

822/823 SERIES

ORDERING INFORMATION					
SERIES	822	Bottom connection	823	Back connection	
ACCURACY	1	≤0.22% full scale	2	≤0.1% full scale	
PROCESS CONNECTIONS	0	None	8	1/2" NPT Male	
	2	1/4" NPT Male	48	1/2" NPT Male w/sliding compression fitting*	
TEMPERATURE RANGE	-58/392	-58 °F to 392 °F	-50/200C	-50 °C to 200 °C	
STEM LENGTHS **	025	2.5"	060	6"	120 12"
	040	4"	090	9"	150 15"
STEM DIAMETERS	2	1/4"	4	1/2"	8 8 mm
	3	3/8"	6	6 mm	

* Add 2" to stem length for this option.

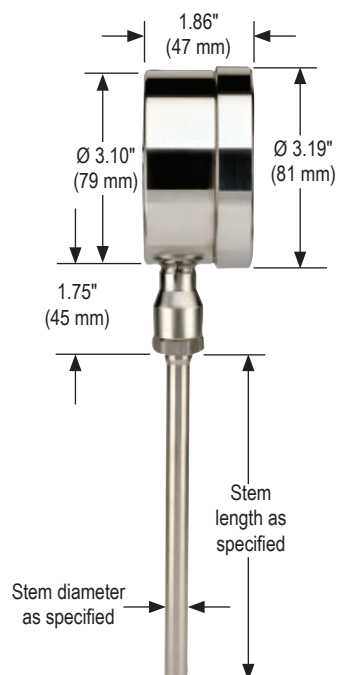
** Consult factory for additional stem length options.

EXAMPLE

822 - 1 - 8 - -58/392 - 090 - 6

Series822 Bottom connection
 Accuracy≤0.22% full scale
 Process connection.....1/2" NPT Male
 Temperature range-58 °F to 392 °F
 Stem length9"
 Stem diameter6 mm

822 Series



823 Series

