

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	≤0.22% full scale; ≤0.1% full scale optional
Display	4-digit LCD
Display resolution	±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 48-50.



WARNING: This product can expose you to chemicals including Lead 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

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"	180 18"
	040 4"	090 9"	150 15"	240 24"
STEM DIAMETERS	2 1/4"	4 1/2"	8 8 mm	
	3 3/8"	6 6 mm		

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

* Add 2" to stem length for this option.

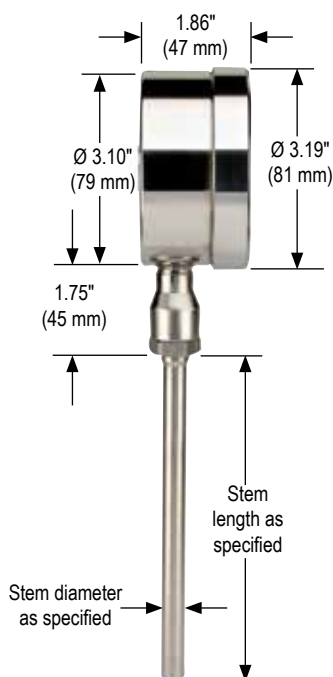
** Consult factory for additional stem length options.

EXAMPLE

Series 822 Bottom connection
Accuracy ≤0.22% full scale
Process connection 1/2" NPT Male
Temperature range -58 °F to 392 °F
Stem length 9"
Stem diameter 6 mm

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822 Series



823 Series

