

INDUSTRIAL THERMOMETER



Solar Digital

The solar-powered Miljoco CDX9 Series represents the "next generation" in industrial thermometers. The bold, hi-contrast display is easily read from greater distances than the typical glass tube thermometer. The unique, patented* design includes angled solar panel, allowing the unit to collect light from multiple planes and providing reliable service in even the most dimly lit installations.

The CDX9 Industrial Thermometer is furnished in one standard temperature range (-50 to 300°F & -45 to 150°C) which is switchable in the field. This wide range covers most applications for this type of product, while offering an environmentally-friendly alternative to the commonly specified mercury-in-glass thermometer.

***Patent No. 5,196,781**

General Specifications

CASE: High impact ABS black plastic.

STEM: Aluminum. 3-1/2" or 6".

CONNECTION: 1-1/4"-18 UNF brass coupling nut.

SENSOR: Glass passivated thermistor.

RANGE: -50 to 300°F (-45 to 150°C),

Field switchable °F & °C.

DISPLAY: LCD, black character, 0.50" high with gray background.

ILLUMINANCE: 10 lux.

UPDATE TIME: 10 seconds

ACCURACY: Greater value of 1° or 1% of reading.

RESOLUTION: 0.10° from -19.9 to 199.9°F (-28 to 93°C), 1.0° from 200 to 300°F (94 to 150°C)

RECALIBRATION: Internal potentiometer.

ENVIRONMENTAL CONDITIONS:

Ambient Temperature: -30 to 140°F (-35 to 60°

C) Maximum Humidity: 100%

ADJUSTABLE FITTING: Finished to match the case and locked in place with a screw. Provides 180° adjustment in vertical plane and 360° adjustment in horizontal plane.

Ranges

Code	Range
85	-50 to 300°F / -45 to 150°C

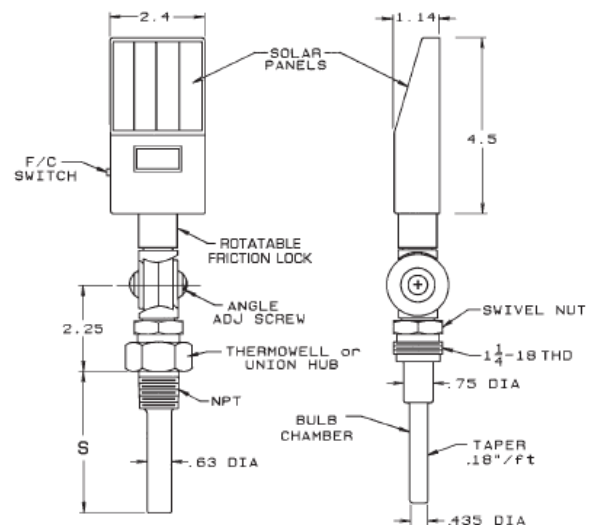
Options

☐ Air-Duct Stem



Models

Model Number	Stem Length	Dimension (in.)			
		A	B	C	U
CDX935	3 1/2"	3.20	7.56	5.75	2.50
CDX960	6"	3.20	10.06	8.25	5.00



To Order

CDX935
Model Number

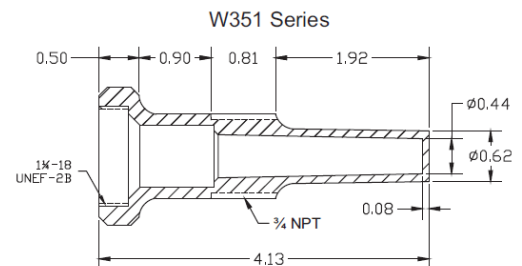
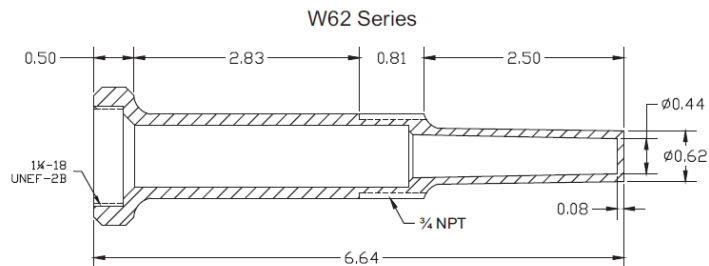
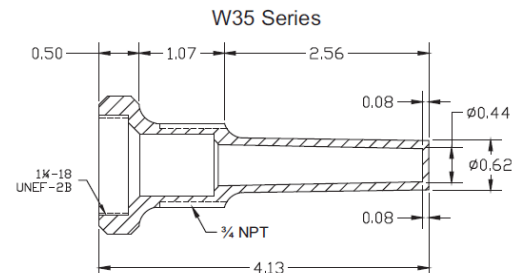
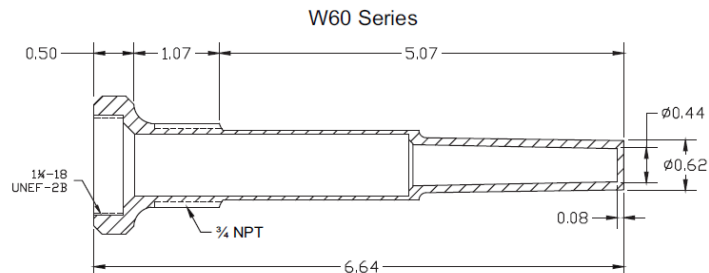
85
Range Code

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Thermowells

Dimensions in inches



These thermowells are designed use with Miljoco liquid-in-glass and solar industrial thermometers. They are intended to separate and protect the thermometer from the process or media being measured and allow for the removal of the thermometer without shutting down the process. They are readily available in brass, lead-free brass, type 304 stainless steel, or type 316 stainless steel construction to suit a wide range of applications. Other materials are available on request - consult factory.

Models & Dimensions (in.)

Stem Length "S"	Process Conn. "A"	Immersion Length "U"	Lagging Ext. "T"	Material		
				Brass	304SS	316SS
3 1/2"	3/4" NPT	2.50"	None	W35B	W35304	W35316
3 1/2"	3/4" NPT	1.50"	1.00"	W351B	W351304	W351316
6"	3/4" NPT	5.00"	None	W60B	W60304	W60316
6"	3/4" NPT	2.50"	2.00"	W62B	W62304	W62316

Pressure/Temperature Ratings

Material	Temperature						
	70°F	200°F	400°F	600°F	800°F	1000°F	1200°F
Brass	1600 psi	1400 psi	300 psi	-	-	-	-
304SS	2300 psi	2000 psi	1800 psi	1800 psi	1700 psi	1500 psi	500 psi
316SS	2300 psi	2300 psi	2100 psi	2000 psi	2000 psi	1700 psi	800 psi

The thermowell should be primed before thermometer installation with a heat transfer medium such as oil, graphite or paste to provide optimal accuracy and response time.

Options

- ☐ WCCB: Thermowell cap & lanyard
- ☐ Available in Lead-Free Brass

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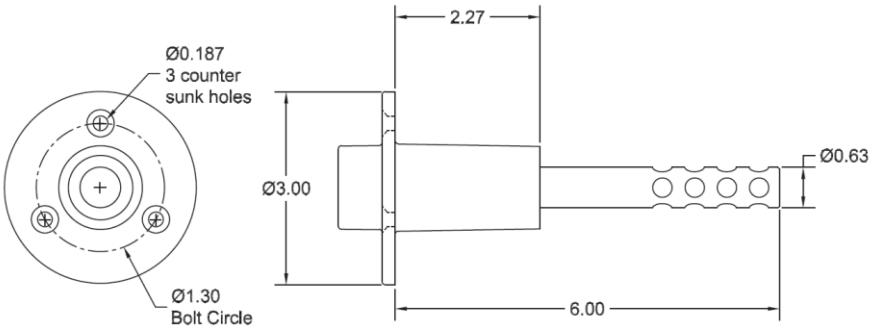


Options & Accessories

Air-Duct Stem

Miljoco offers an air-duct stem on both the liquid-in-glass and solar digital thermometers. This stem is designed to provide maximum accuracy and response time for thermometers that are to be installed in ducts and other air-temperature measurement applications.

Model	Scale Size
SX7AD06	7"
SX9AD06	9"
CDX9AD06	Solar
Refer to pages ___ for full dimensional drawings	



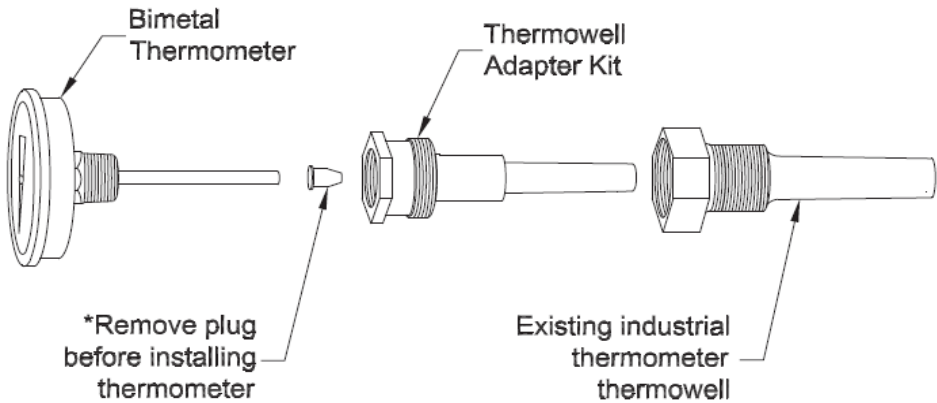
Optional Features & Accessory Items

Code	Feature	Description
G	Glass Lens	Double strength glass lens on Models SX7 & SX9.
BS	Brass Stem	Brass Stem on Models SX7 & SX9.
SS	Stainless Steel Stem	304 stainless steel stem on Models SX7 & SX9.
46-1	Waterproof Cover	Clear waterproof cover for Model CDX9

Specify the optional feature code when ordering. Stainless steel and brass connection bushings are also available for use with optional stainless steel and brass stems – consult factory for details.

Thermowell Adapter Kit

This easy-to-use adapter kit is designed to fit precisely within an industrial thermometer well. Simply thread the adapter into the well, remove the plug, and install a Miljoco Bimetal Thermometer of the appropriate stem length. The adapter kit is furnished complete with heat transfer paste to provide the fastest response time of the thermometer.



Model	Industrial Thermowell Number	Bimetal Thermometer Stem Length
BK35	W35 / W351	4"
BK60	W60 / W62	6"

Industrial Solar Digital DS-CDX EN v1 Dataheet 0826