

# proSense™ RTD Thermowells and Fittings

by AUTOMATIONDIRECT



Company Information

Systems Overview

Programmable Controllers

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pressure Sensors

Temperature Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

Pneumatics

Appendix

Product Index

Part # Index



## Features

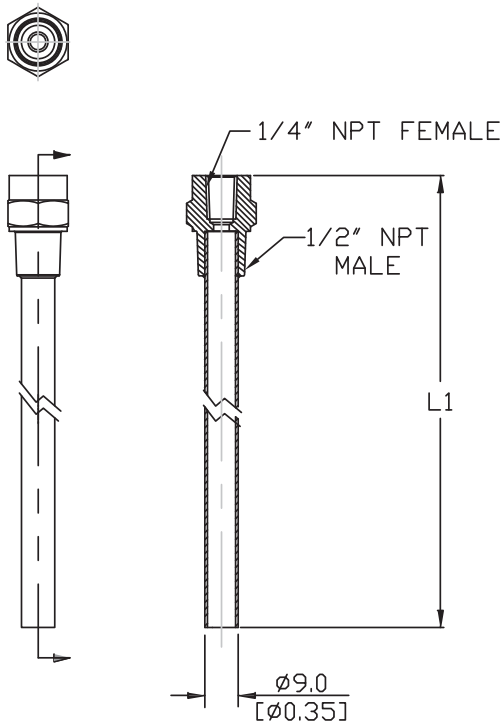
- Thermowells for ProSense 1/4 inch and 10 mm diameter RTD probes
- All wetted parts are 316 stainless steel
- 600°F (315°C) temperature and 232 psi (16 bar) pressure rating
- CF06-25N or CF10-50N fitting required to mount RTD probes in thermowell
- 3-Year warranty

ProSense Thermowells for RTDs						
Part Number	Description	Pcs/Pkg	Wt(lb)	Price	Use With	
RTDTW-06-010-50N	RTD thermowell for 1/4 inch (6 mm) diameter probe, 6.3 inch (160 mm) long, 1/2 (0.5) inch NPT male process connection	1	0.33	<--->	RTD0100-06-010-H CF06-25N	
RTDTW-06-020-50N	RTD thermowell for 1/4 inch (6 mm) diameter probe, 10.2 inch (260 mm) long, 1/2 (0.5) inch NPT male process connection	1	0.38	<--->	RTD0100-06-020-H CF06-25N	
RTDTW-06-030-50N	RTD thermowell for 1/4 inch (6 mm) diameter probe, 14.2 inch (360 mm) long, 1/2 (0.5) inch NPT male process connection	1	0.42	<--->	RTD0100-06-030-H CF06-25N	
RTDTW-10-010-50N	RTD thermowell for 10 mm (0.4 inch) diameter, 160 mm (6.3 inch) long probe, 1/2 (0.5) inch NPT male process connection	1	0.28	<--->	RTD0100-10-010-H CF10-50N	
RTDTW-10-020-50N	RTD thermowell for 10 mm (0.4 inch) diameter, 260 mm (10.2 inch) long probe, 1/2 (0.5) inch NPT male process connection	1	0.36	<--->	RTD0100-10-020-H CF10-50N	
RTDTW-10-030-50N	RTD thermowell for 10 mm (0.4 inch) diameter, 360 mm (14.2 inch) long probe, 1/2 (0.5) inch NPT male process connection	1	0.42	<--->	RTD0100-10-030-H CF10-50N	
RTDTW-10-050-50N	RTD thermowell for 10 mm (0.4 inch) diameter, 560 mm (22.0 inch) long probe, 1/2 (0.5) inch NPT male process connection	1	0.58	<--->	RTD0100-10-050-H CF10-50N	

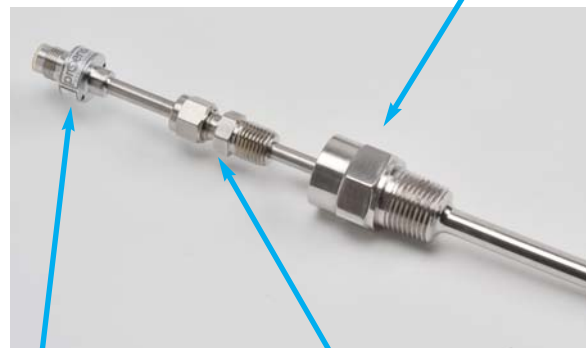


**NOTE: CHECK THE CHEMICAL COMPATIBILITY OF THE SENSOR'S WETTED PARTS WITH THE MEDIUM TO BE MEASURED.**  
[WWW.AUTOMATIONDIRECT.COM/STATIC/SPECS/PROSENSECHEMRESISTANCE.PDF](http://WWW.AUTOMATIONDIRECT.COM/STATIC/SPECS/PROSENSECHEMRESISTANCE.PDF)

## RTDTW-06 Series Dimensions



## RTD & Thermowell Assembly Example



RTD Series Probe

CF Series Compression Fitting

RTDTW Series Thermowell

Part Number	L1
RTDTW-06-010-50N	113 mm [ 4.4 ]
RTDTW-06-020-50N	213 mm [ 8.4 ]
RTDTW-06-030-50N	313 mm [ 12.3 ]

**Torque threads to 40 lb-ft [54.23 Nm]\***

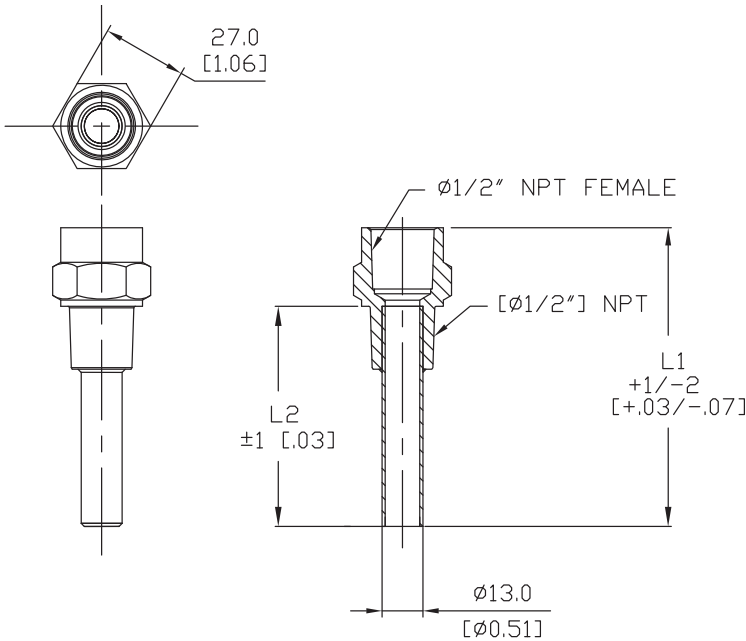
**Dimensions shown mm [inches]**

**\* Torque values are for reference. Actual torque required for a proper seal of NPT threads is influenced by tolerance, sealant, lubricant, etc.**

# proSense™ RTD Thermowells and Fittings

by AUTOMATIONDIRECT

## RTDTW-10 Series Dimensions



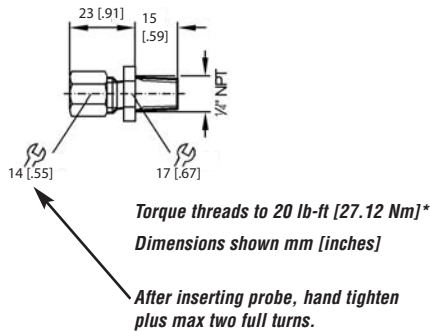
Part Number	L1	L2
RTDTW-10-010-50N	92 mm [ 3.62]	70 mm [ 2.75]
RTDTW-10-020-50N	192 mm [ 7.55]	170 mm [ 6.69]
RTDTW-10-030-50N	292 mm [11.48]	270 mm [10.6]
RTDTW-10-050-50N	492 mm [19.37]	470 mm [18.47]

Torque threads to 40 lb-ft [54.23 Nm]\*

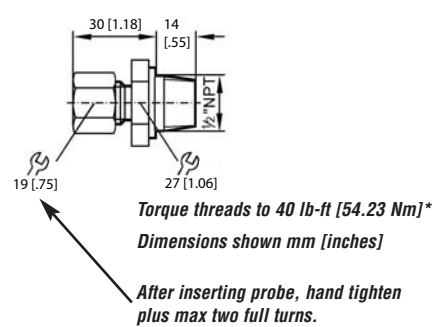
Dimensions shown mm [inches]

ProSense Compression Fittings for Temperature Probes					
Part Number	Description	Pcs/Pkg	Wt(lb)	Price	Use With
<b>CF06-25N</b>	ProSense 1/4 (0.25 inch) NPT stainless steel (320S31) compression fitting for 1/4 inch (6 mm) diameter temperature probe. Pressure rating 725 psi (50 bar).	1	0.18	<--->	TTD25C-20-0100C-H TTD25C-20-0300F-H RTD0100-06-010-H RTD0100-06-020-H RTD0100-06-030-H
<b>CF10-50N</b>	ProSense 1/2 (0.50 inch) NPT stainless steel (320S31) compression fitting for 10 mm (0.4 inch) diameter temperature probe. Pressure rating 725 psi (50 bar).	1	0.20	<--->	RTD0100-10-010-H RTD0100-10-020-H RTD0100-10-030-H RTD0100-10-050-H

### CF06-25N Dimensions



### CF10-50N Dimensions



Note: Once the compression fitting has been fully tightened on the probe, the ferrule will be locked onto the probe and cannot be removed or reused.

\* Torque values are for reference. Actual torque required for a proper seal of NPT threads is influenced by tolerance, sealant, lubricant, etc.