Model C-600A-01 Duratemp® Thermometer

FEATURES

- *Exclusive movementless design resists shock and vibration – no gears to wear or misalign resulting in increased instrument life*
- *Gas-operated molecular sieve*
- *No elevation error*
- *Mercury free*
- *One bulb size for all ranges*
- *±1% full-span accuracy*
- *Maxivision® dial*
- *Limited five-year warranty*

A high impact-resistant polished stainless steel case. Bayonet ring facilitates easy removal for glass replacement and pointer adjustment. A versatile case that enables surface or flush mounting. Available in 4½˝ dial size.

PRODUCT SPECIFICATIONS

Model: C-600A-01

Accuracy: ±1% of span.

Case Style: Stainless steel, bayonet ring

Dial Size: 4½˝ Maxivision linear anti-parallax dial black markings on a white dial

Window: Glass, shatterproof glass and plastic are optional.

Mounting and connection: Surface/Lower (C01) or Flush/Rear (C11)

Ambient Temperature: 160°F/71°C

Bulb size: 3˝ long by 3/8˝ O.D.

Bulb Material: 316 Stainless steel

Bulb Styles:
- 12˝ Bendable extension w/ ½ NPT union connection (B01)
- Plain bulb with rigid extension no union (B03)
- Plain bulb with rigid extension ½ NPT union on armor (B08)
- 18˝ Bendable extension w/ ½ NPT union connection (B17)
- 24˝ Bendable extension w/ ½ NPT union connection (B18)

Capillary Material: 300 Stainless steel

Line length: 5 – 80 in standard increments (See table 5)

Armor: AISI 302 Spring Armor standard, interlock 303 SS, PVC coated, plain and no armor are optional.

Ranges: −300/200°F-400/1200°F −200/100°C-200/650°C Dual scale ranges available

Over Range: 125% of span

Head/Elevation Error: None

Product Options:
Front Flange **XFF** (600A-01-C11 only)
Dial Markings **XDM**
Externally adjustable red set hand **XEO**
Externally adjustable **XEP**
Externally adjustable min. pointer **XEQ**
Non-glare glass **XNG**
Paper Tag **XNN**
Stainless steel tag **XNH**
Plastic Window **XPD**
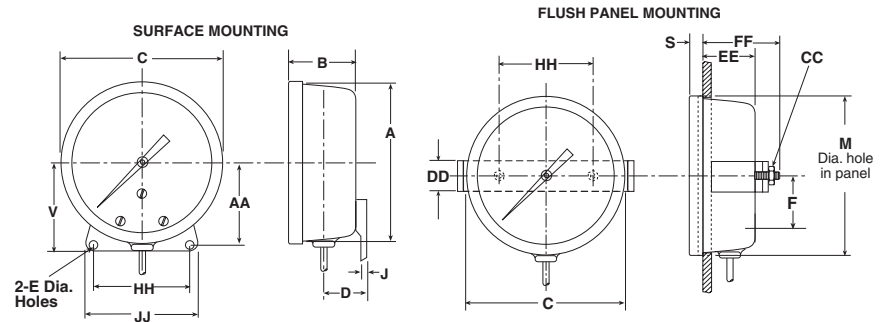Shatterproof glass **XSG**
Stationary Red Hand Set **XSH**

HOW TO ORDER

C-600A	01			C01						B01		A1		L07		AK	
	Table 1			**Table 2**						**Table 3**		**Table 4**		**Table 5**		**Table 6**	
	CASE STYLE			CASE STYLE		MOUNTING CONNECTION				BULB STYLES		ARMOR STYLE		LINE LENGTH		RANGES	
	CODE	DESCRIPTION		CODE	SIZE	SURFACE	FLUSH	LOWER	REAR	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
	01	SS Bayonet Ring		C01	4½	✔		✔		B01	12˝ Bendable extension with ½ NPT union connection	A1	Stainless Steel Spring	L01	5	AB	−320/200°F
				C11	4½		✔		✔							AE	−100/100°F
										B03	Plain bulb with rigid extension, no union			L03	10	AG	−40/180°F
																AK	20/240°F
																AL	50/300°F
										B08	Plain bulb with rigid extension, ½ NPT union on armor					AN	50/550°F
														L07	20	AR	50/750°F
																AT	400/1200°F
										B17	18˝ Bendable extension with ½ NPT union connection					AY	−200/100°C
														L09	30	BL	−80/40°C
																BN	−40/80°C
										B18	24˝ Bendable extension with ½ NPT union connection					BS	0/120°C
																BT	10/150°C
										*Minimum recommended insertion length ("u" dimension) in liquids is 4 inches and in gases is 6 inches for standard ⅜ x 3˝ bulb				L13	50	BU	0/300°C
																BW	0/400°C
																BJ	200/650°C
																	DUAL RANGES
														L19	80	CE	0/120°C
																	20/240°F
																CF	0/300°C
																	50/550°F
																DR	10/150°C
																	50/300°F
																DT	−40/80°C
																	−40/180°F

Note: Thermowells must be used on any application where the bulb of the thermometer may be exposed to pressure, corrosive fluids, or velocity. Additionally, the use of a thermowell permits instrument interchangeability or recalibration without shutting down the process.

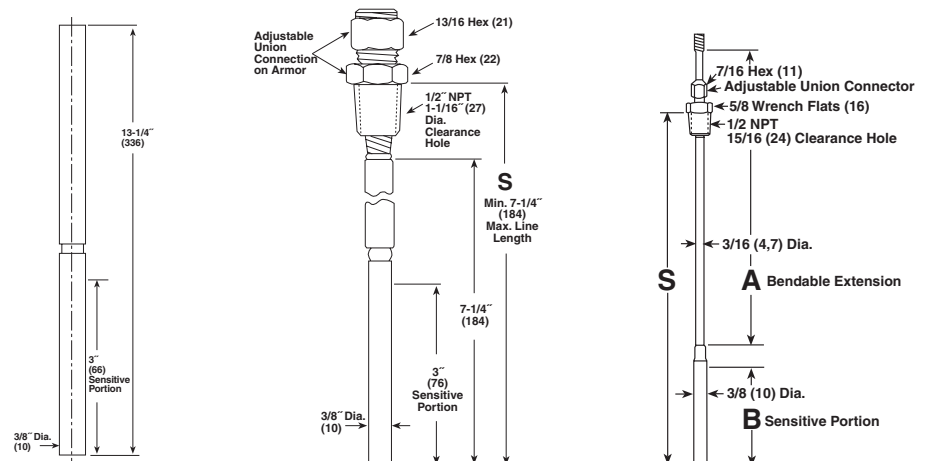# Model C-600A-01 Duratemp® Thermometer

Case Dimensions

SURFACE MOUNTING

FLUSH PANEL MOUNTING

2-E Dia. Holes

M Dia. hole in panel

Dial Size Inches	A	B	C	D	E	F	J	M	S	U	AA	CC	DD	FF	EE	HH	JJ
4½	4²³⁄₃₂ (120)	2³⁄₁₆ (56)	5⅛ (130)	1¹⁄₁₆ (27)	⁷⁄₃₂ (6)	1⅝ (141)	¹⁄₁₆ (2)	4²⁵⁄₃₂ (121)	⁷⁄₁₆ (11)	1⁷⁄₁₆ (37)	2⅝ (67)	10-24	1 (25)	2¼ (57)	1⅝ (41)	3 (76)	3½ (89)

NOTE: Dimensions in inches, ( ) are millimeters.

Bulb Style and Armor Dimensions

Style B03
13˝ plain bulb for applications used in open tanks where pressures and velocities are negligible.

Armor Style A1
AISI 302 stainless steel spring armor is supplied as standard. Originally designed for U.S. Navy Hi Shock thermometers

Style B08
The compression fitting fastens anywhere along the armored line. This bulb style is well suited for insertion requirements in excess of 13½˝. The B08 style is not a pressure tight connection. A thermowell is recommended for this style and for all bulb styles.

Style B01, B17 & B18
Are bendable extensions with union connections. B01 (12˝ bendable extension) is the standard Duratemp bulb style and is suitable for a variety of insertion lengths and lagging requirements. B17 is a 18˝ bendable extension, B18 is a 24˝ bendable extension. The union connection on all three styles is pressure tight and can be freely moved the entire length of the bendable portion. After installation, the bendable extension may be formed to suit the application.

Bulb Code	Bulb Size "B"	"A"	"S" Max.	"S" Min.
B01	3 (76)	12 (305)	15 (381)	4 (102)
B17	3 (76)	18 (457)	21 (533)	4 (102)
B18	3 (76)	24 (610)	27 (686)	4 (102)