C-600A-02 Duratemp® Thermometer

FEATURES

- Extreme resistance to shock and vibration
- Exclusive movementless design eliminates wear and increases product life
- No head or elevation error due to bulb placement
- Maxivision[®] dial for precise readings (minimize parallax reading errors)
- Multiple case sizes 4½", 6", 8½" back connection, flush mounted for panel mounting
- Gas-operated molecular sieve

TYPICAL USES

- Offshore oil rigs
- Chemical and petrochemical plants
- Water and wastewater temperature control
- Pulp and paper
- Refineries
- Power
- General industrial
- Equipment skids
- HVAC
- Pharmaceutical/biotech
- Food and beverage

SPECIFICATIONS

Accuracy:	±1% of span
Sizes:	4½", 6" or 8½"
Range:	-320°F/200°F to 400°F/1200°F (-200°C/100°C to 200°C/650°C)
Over Range:	125% of span
Mounting & Connection:	Flush/Rear
Bulb Size:	3″ Long x ¾″ 0.D.
Bulb Style:	12" Bendable extension with ½ NPT union connection Plain bulb with rigid extension no union Plain bulb with rigid extension ½ NPT union on armor 18" Bendable extension with ½ NPT union connection 24" Bendable extension with ½ NPT union connection
Line Length:	5ft to 80ft in standard increments
Dial:	$\ensuremath{Maxivision}\xspace^{\ensuremath{\mathbb{B}}}$ anti-parallax dial, black markings on a white dial
Head/Elevation Error:	None
Hand Set:	Stationary red hand set or Externally adjustable Red set hand
Pointer:	Black, aluminum
Electric Contacts:	High and low, double high, double low, off at low or high and on in-between

C-600A-02

41/2", 6", 81/2" dial sizes

KEY BENEFITS

- Epoxy coated aluminum case
- Hinged ring for easy glass replacement or pointer adjustment
- Extremely versatile for use on many applications
- 5 year limited warranty
- Ideal for extreme process temperatures

THERMAL SYSTEM						
Bulb/Bendable ext. Material	Armor Material		Capillary Material		Connection Material	
316 SS	AISI 302 S Armor		316 SS		303 SS	
NON-WETTED COMPONENTS						
Window		Case			Ring	
Glass, Safety glass, Acrylic		ļ	Aluminum		Aluminum hinged ring	
TEMPERATURE LIMITS						
Version		Ambient				
Dry			-13°F (-25°C) to 160°F (71°C)			

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C-600A-02 Duratemp® Thermometer

ORDERING CODE Example:	C-600A-02-C12	B01	A1	L01	AB	-XSG
Case Style	•					
C-600A-02-C12 - 41/2" Case size, aluminum hinged ring, flush mount, rear conn.	C-600A-02-C12					
C-600A-02-C27 - 6" Case size, aluminum hinged ring, flush mount, rear conn.						
C-600A-02-C35 - 81/2" Case size, aluminum hinged ring, flush mount, rear conn						
Bulb Style - (Note 1)						
B01 - 12" Bendable extension with ½ NPT union connection		B01				
B03 - Plain bulb with rigid extension, no union						
B08 - Plain bulb with rigid extension, ½ NPT union on armor						
B17 - 18" Bendable extension with 1/2 NPT union connection						
B18 - 24" Bendable extension with 1/2 NPT union connection						
Armor Style						
A1 - SS spring			A1	-		
Line Length (Capillary length is measured from bottom of case to top of bulb exte	ension)			-		
L01 - 5′				L01		
L03 - 10′						
L07 - 20´						
L09 - 30´						
L13 - 50′						
L19 - 80′						
Ranges (coding example, see range table on page 3 for all standard ranges)						
AB320/200°F					AB	
Options (If choosing an option(s) must include an "X")						-X
CS - Dual scale						
DM - Dial marking						
ED - High and low electric contacts						
EE - Double high electric contacts						
EF - Double low electric contacts						
EG - Electric contacts off at low or high and on in-between						
EO - Externally adjustable red set hand						
EP - Externally adjustable maximum pointer						
EQ - Externally adjustable minimum pointer						
NH - SS tag						
PD - Acrylic window						
SG - Shatterproof glass						SG
SH - Stationary red set hand						
TK - Tank car thermometer (Only available on C-600A-02-C35)						

NOTES

- 1. Minimum recommended insertion length ("u" dimension) in liquids is 4 inches and in gases is 6 inches for standard $\frac{3}{4} \times 3^{"}$ bulb.
- Thermowells must be used on any application where the bulb of the thermometer may be exposed to pressure, corrosive fluids, or velocity. 2. Additionally, the use of a thermowell permits instrument interchangeability or recalibration without shutting down the process.

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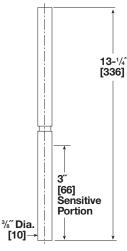
C-600A-02 Duratemp® Thermometer

SINGLE RANGES					
Range Code		Range Code			
AB	-320°F/200°F	AY	-200°C/100°C		
AE	–100°F/100°F	BL	-80°C/40°C		
AG	-40°F/180°F	BN	-40°C/80°C		
AK	20°F/240°F	BS	0°C/120°C		
AL	50°F/300°F	BT	10°C/150°C		
AN	50°F/550°F	BU	0°C/300°C		
AR	50°F/750°F	BW	0°C/400°C		
AT	400°F/1,200°F	BJ	200°C/650°C		

DUAL RANGES				
Range Code				
CE	0°C/120°C and 20°F/240°F			
CF	0°C/300°C and 50°F/550°F			
DR	10°C/150°C and 50°F/300°F			
DT	-40°C/80°C and -40°F/180°F			

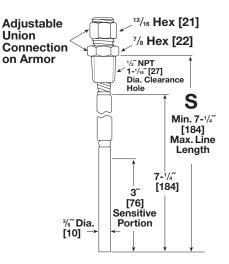
For reference only, consult Ashcroft for specific dimensional drawings

DIMENSIONS in [] are millimeters



Style B03

13" plain bulb for applications used in open tanks where pressures and velocities are negligible

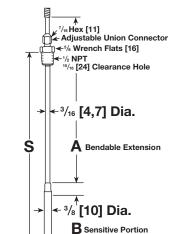


Style B08

The compression fitting fastens anywhere along the armored line. This Bulb Style is well suited for insertion requirements in excess of $131\frac{1}{2}$ ". The B08 style is not a pressure tight connection. A thermowell is recommended for this style and for all bulb styles.

Bulb	Bulb Size	А	S	S
Code	B		MAX.	MIN.
B01	3	12	15	4
	[76]	[305]	[381]	[102]
B17	3	18	21	4
	[76]	[457]	[533]	[102]
B18	3	24	27	4
	[76]	[610]	[686]	[102]

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Style B01, B17 & B18

The 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.

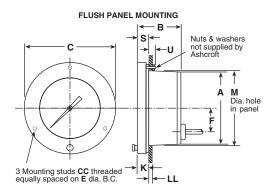
Armor Style A1

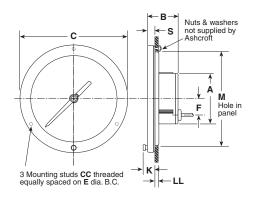
AISI 302 stainless steel spring armor is supplied as standard. Originally designed for U.S. Navy Hi Shock thermometers $_{3 \text{ of } 4}$



C-600A-02 Duratemp® Thermometer

For reference only, consult Ashcroft for specific dimensional drawings **DIMENSIONS** in [] are millimeters **Dial Size** С СС LL S Α В Е F Κ Μ U Inches 5.38 [137] 4.75 2.19 6.03 1.63 1.06 4.88 0.13 0.5 0.63 0.75 **4**½ 10-24 [153] [120.7] [56] [41] [124] [3] [13] [16] [27] [16] 7.5 [190.5] 4.88 2.25 2.13 0.13 0.5 0.63 0.75 1.06 6.5 7 [178] 6 0.25 - 20 [123.7] [3] [13] [57] [54] [27] [165] [16] [16] 0.63 4.75 2.25 2.13 1.06 0.13 0.5 0.75 9.97 9.63 9 **8**½ 0.25 -20 [244] [120.7] [229] [57] [352] [54] [27] [3] [13] [16] [16]





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