

800-1BS, 800-2BS, 800-3BS, 802-4BS, 802-5BS,
802-6BS, 820E-7BS, 820E-8BS, 822E-8BS,
T800-8BS, T800-8BS и др.

Сигнализаторы температуры с индикацией для перерабатывающей промышленности и OEM серии 800. Технические характеристики.



По вопросам продаж и поддержки обращайтесь:

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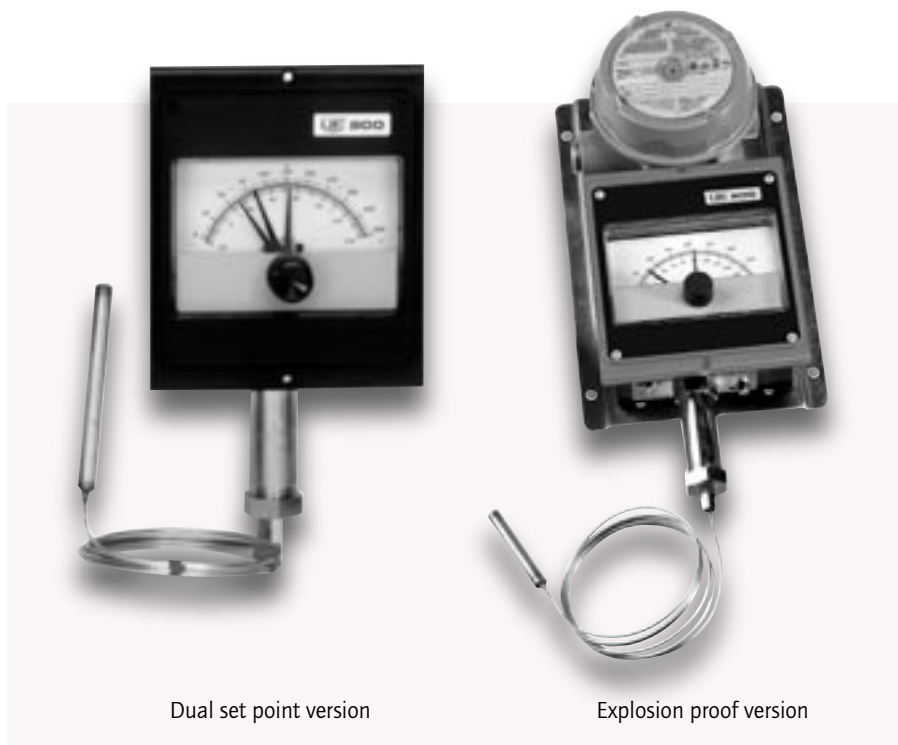
OVERVIEW

For applications that require a visual display of process temperature and set point, the 800 Series offers a highly readable four inch setting/indication scale. It is available in two versions: a Lexan® enclosure for enclosure type 1 or 4 applications (with option M300), and with Lexan® and epoxy-coated aluminum enclosure for Div. 1 explosion-proof applications. For temperature indication only, the T800 thermometer incorporates the same performance and construction features of the 800 Series.

800 Series models control and indicate the temperature of food service appliances, ovens, packaging machines, HVAC equipment, and various temperature applications within process plants.

FEATURES

- Temperature indication and control switching
- Single or dual SPDT output
- Stainless steel bulb & capillary
- Simple to adjust via external knob
- Explosion proof models are UL listed, cUL certified, and ATEX compliant. Russian, Ukrainian, Chinese, and Australian flameproof and/or intrinsic safety compliance are optional
- Optional thermowells and union connectors available



SPECIFICATIONS

STORAGE TEMPERATURE	-65 to 160°F (-54 to 71 °C)
AMBIENT TEMPERATURE LIMITS	-40 to 160°F (-40 to 71 °C); set point typically shifts less than 1% of range for a 50°F (28°C) ambient temperature change
SET POINT REPEATABILITY	± 1% of adjustable range
SHOCK	Set point repeats after 15 G, 10 millisecond duration
VIBRATION	Set point repeats after 2.5 G, 5-500 Hz
ENCLOSURE	Types 800, 802: Lexan® black finish; clear Lexan® faceplate Types T800, 820E, 822E: Die cast aluminum, epoxy coated enclosure, gasketed; Lexan® cover and faceplate
ENCLOSURE CLASSIFICATION	Types 800, 802, T800: Designed to meet enclosure type 1 requirements (enclosure type 4 by specifying option M300). Types 820E, 822E: Designed to meet enclosure type 4X; Class I Div. 1 products meet enclosure type 7; Class II, Div. 1 products meet enclosure type 9. Certified to IP66 requirements
INDICATION ACCURACY	± 1% of adjustable range
SWITCH OUTPUT	One or two SPDT; dual switch may be separated up to 100% of range; except type 822E where switch #2 can be set up to 25% of range span below switch #1 set point. Switches may be wired "normally open" or "normally closed"
DUAL SWITCH ADJUSTMENT	Type 802: Dual switch controls have separate knob & temperature pointers for each switch set point (standard); turn inner green knob for setting #1 switch; outer black knob for switch #2. Type 822 common adjustment single knob and pointer for set point
ELECTRICAL RATING	15 A 125/250/480 VAC resistive. Electrical switches have limited DC capabilities. Consult factory for additional information.
WEIGHT	Types 800, 802, T800: Approx. 3 lbs., 4 oz. (1,47 kg) Types 820E, 822E: Approx. 7 lbs (3,18 kg)
ELECTRICAL CONNECTION	Types 800, 802: 7/8" diameter knockout on left hand side; 18 AWG color-coded leadwires, approx. 9 inches exposed with strain relief (option M100 adds terminal block wiring). Types 820E, 822E: two 3/4" NPT E/C with terminal block
BULB AND CAPILLARY	6 feet 304 stainless steel
TEMPERATURE FILL	Model 1BS: solvent filled; models 2-8: non-toxic oil filled
TEMPERATURE DEADBAND	Typically 1% of range under laboratory conditions (70°F ambient circulating bath at rate of 1/2°F per minute change)



TEMPERATURE MODEL CHART

Model	Adjustable Set Point Range		Max. Temp.		Scale Div.		Bulb Size
	°F	°C	°F	°C	°F	°C	OD x Length
1BS*	-180 to 120	-117.8 to 48.9	170	76.7	5	5	3/8 x 3-3/4"
2BS	-125 to 350	-87.2 to 176.7	400	204.4	10	5	3/8 x 2-7/16"
3BS	-125 to 500	-87.2 to 260	550	287.8	10	5	3/8 x 2-1/8"
4BS	-40 to 120	-40 to 48.9	170	76.7	5	2	3/8 x 6-3/4"
5BS	-40 to 180	-40 to 82.2	230	110	5	2	3/8 x 5"
6BS	0 to 250	-17.8 to 121.1	300	148.9	5	2	3/8 x 4-1/2"
7BS	0 to 400	-17.8 to 204.4	450	232.2	10	5	3/8 x 3"
8BS	50 to 650	10 to 343.3	700	371.1	10	10	3/8 x 3-1/4"

HOW TO ORDER

BUILDING A PART NUMBER

Select a **Type**

Refer to the "Type" section below.

Determine type number based on switch output, enclosure, adjustment and reference.

Fill in the type portion of your part number with the corresponding number.

Select a **Model**

Refer to the "Model Charts."

Determine model based on adjustable range, deadband and proof pressure.

Fill in the model portion of your part number with the corresponding number.

Select an **Option**

Refer to the "Options" section.

Determine option number based on switch output, optional materials or other product enhancements.

Fill in the option portion of your part number with the corresponding number.

Leave "option" portion blank if no options are needed. FOR MULTIPLE OPTIONS: Call United Electric Controls.

TYPE

TEMPERATURE

Type 800 - Bulb and capillary; one SPDT output; external indication

Type 802 - Bulb and capillary; two SPDT outputs; external indication

Type 820E - Bulb and capillary; one SPDT output; external indication, explosion proof

Type 822E - Bulb and capillary; two SPDT outputs; external indication, explosion proof

Type T800 - Thermometer only with external indication

OPTIONS

SWITCH OPTIONS* DESCRIPTION

0140	Gold contacts, 1 A 125 VAC resistive. NOT AVAILABLE TYPE 800, 820E, T800
0500	Close deadband, 5 A 125/250 VAC resistive. NOT AVAILABLE TYPE T800
2000	20 A 125/250 VAC resistive. NOT AVAILABLE TYPE T800

OTHER OPTIONS

M007	Drilled 7/8" electrical opening on right side. NOT AVAILABLE TYPES 820E, 822E and T800
M100	Terminal block wiring. NOT AVAILABLE TYPE 820E, 822E (standard) AND T800
M201	Factory set one switch; specify increasing or decreasing temperature and set point. NOT AVAILABLE TYPE 802, 822E, T800
M202	Factory set two switches; specify increasing or decreasing temperature and set point. NOT AVAILABLE TYPE 800, 820E, T800
M300	NEMA 4 construction; includes watertight conduit fitting and gasketing. NOT AVAILABLE TYPES 820E, 822E
M320	Tamper resistant cover. NOT AVAILABLE TYPES T800
M403	Flameproof compliance for Australia per IECEx standards. NOT AVAILABLE TYPES 800, 802, T800
M404	Flameproof compliance for Ukraine per Gosnadzorhnantruda standards. NOT AVAILABLE TYPES 800, 802, T800
M406	Flameproof compliance for Russia per Gosgortekhnadzor standards. NOT AVAILABLE TYPES 800, 802, T800
M408	Flameproof compliance for China per CQST standards. NOT AVAILABLE TYPES 800, 802, T800
M444	Paper ID tag
M446	Stainless steel ID tag & wire attachment
M900	Watertight conduit fitting; converts 7/8" hole to 1/2" NPT fitting. NOT AVAILABLE TYPES 820E, 822E

OPTIONS FOR TEMPERATURE MODELS

UNION CONNECTORS

Option	Replacement Number	Description
<u>Brass</u>		
W027	SD6213-27	1/2" NPT w/ 3/4" bushing
W045	SD6213-45	3/4" NPT
W051	SD6213-51	1/2" NPT
<u>304 Stainless Steel</u>		
W028	SD6213-28	1/2" NPT w/ 3/4" bushing
W046	SD6213-46	3/4" NPT
W050	SD6213-50	1/2" NPT

THERMOWELLS

For all bulb & capillary switches, except Model 13545

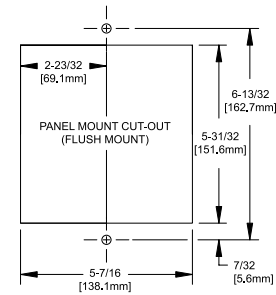
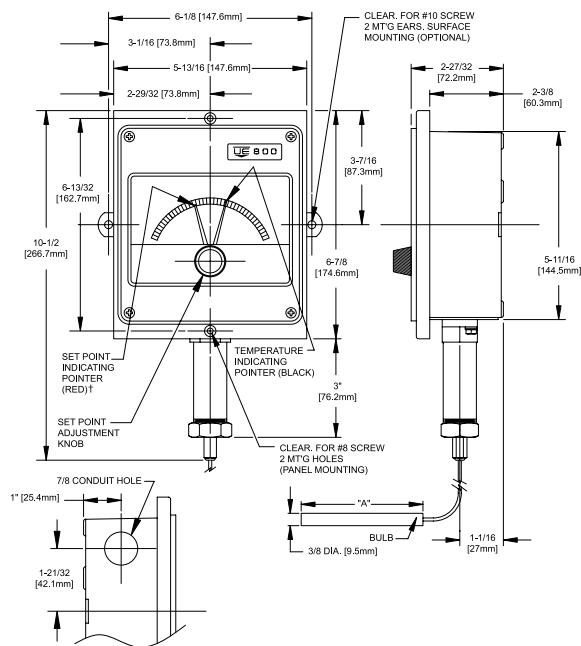
<u>Brass</u>		
W075	SD6225-75	1/2" NPT with 3/4" NPT adapter bushing, 4" BT
W191	SD6225-191	1/2" NPT, 4" BT
W118	SD6225-118	1/2" NPT with 3/4" NPT adapter bushing, 7" BT
W192	SD6225-192	1/2" NPT, 7" BT
<u>316 Stainless Steel</u>		
W076	SD6225-76	3/4" NPT, 4.5" BT
W193	SD6225-193	1/2" NPT, 4.5" BT
W119	SD6225-119	3/4" NPT, 7.5" BT
W177	SD6225-177	1/2" NPT, 7.5" BT

DIMENSIONAL DRAWINGS

800 Series

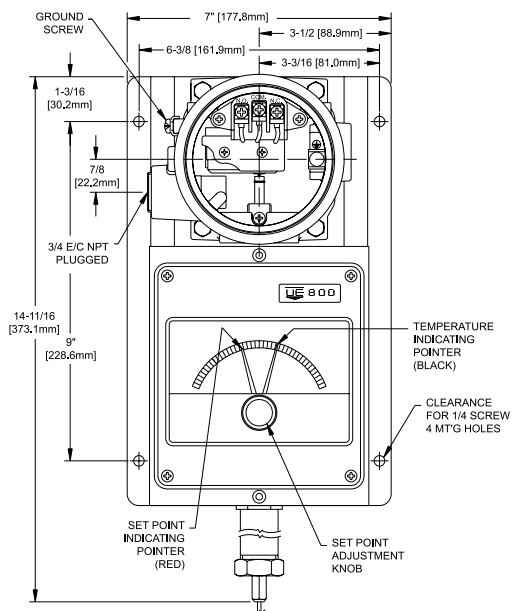
External Set Point Adjustment & Temperature Indication

Types 800, 802, T800

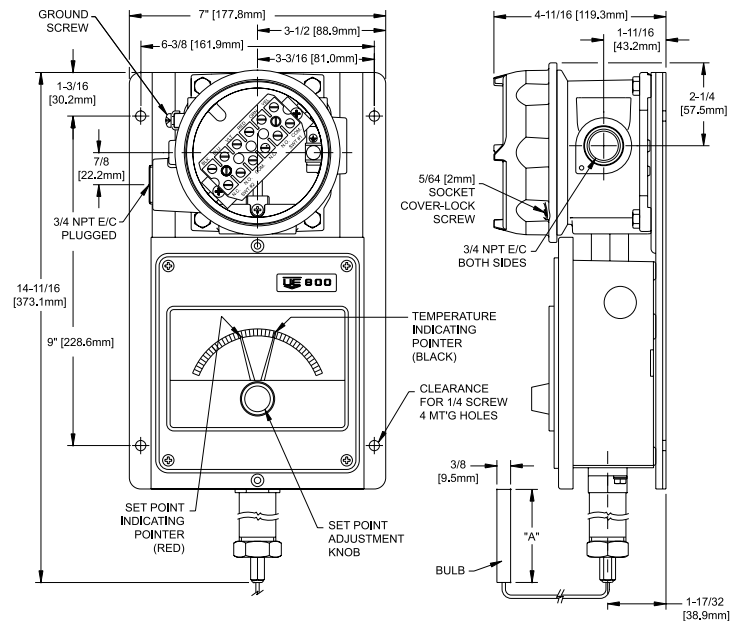


<i>Dimension A</i>		
Models	Inches	mm
1BS	3-3/4	95.3
2BS	2-7/16	62.0
3BS	2-1/8	54.0
4BS	6-3/4	171.5
5BS	5	127.0
6BS	4-1/2	114.3
7BS	3	76.2
8BS	3-1/4	82.6

Type 820 E



Type 822 E



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