Miniature Temperature **Transmitters** Optional mounting bracket, Thermocouple or RTD Input

- Metal Case, RFI Shield
- 2-Wire Transmitter
- ✓ 4 to 20 mA Output
- ±0.1% FS Accuracy
- Upscale Break Protection
- Non-Isolated
- **Mounts in Protection Head**

or to a 2- or 3-wire RTD sensor input.

The economical OMEGA® TX91 and TX92 2-wire

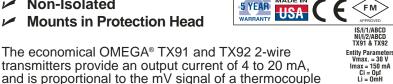
The TX91 or TX92 is very compact and can mount directly within OMEGA's NB1 cast iron protection head. By having the transmitter near the sensor, the

effects of electrical noise can be minimized and long

runs of thermocouple wire can be eliminated.

TX90 Series Starts at





Entity Parameters Vmax. = 30 V Imax = 150 mA Ci = Oµf Li = OmH **Optional mounting** track, RT, \$14, shown actual size.

TX90-BR, \$18.

**Specifications** 

Output Range: 4 to 20 mA DC

Zero and Span Adjustment Range: ±25%

Accuracy: ±0.1% FS (includes effects of linearity, hysteresis

and repeatability) referenced to the mV input

Ambient Temperature Range: -32 to 85°C (-25 to 185°F) Storage Temperature Range: -65 to 90°C (-85 to 193°F) Supply Voltage: 11 to 44 Vdc; 24 Vdc recommended

Max Loop Resistance: Vs - 11 V 0.020A



### Range Codes

	Mod	el Νι	ımbe	r	
TX91				TX92	Range
J	K	Т	Е	RTD	°C (°F)
_	_	_	_	1	-40 to 49 (-40 to 120)
J2	K2	T2	E2	2	-18 to 93 (0 to 200)
J3	K3	T3	E3	3	-18 to 149 (0 to 300)
J4	K4	T4	E4	4	-18 to 260 (0 to 500)
J5	K5	-	E5	5	-18 to 399 (0 to 750)
J6	K6	_	<b>E</b> 6	6	-18 to 538 (0 to 1000)

Notes: (1) Thermocouple models' output proportional to mV output of T/C. Not linearized to temperature. (2) Non-Isolated unit for use with ungrounded probes.

## MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)							
Model No. Price		Description					
TX91-(*)	\$188	Thermocouple transmitter (J, K, T or E)					
TX92-(*)	188	RTD transmitter (100 Ω, Pt 0.00385)					
NB1TX-(*)	237	NB1 thermocouple probe, 12" L, ¼" OD, ungrounded junction, 304 SS sheath, with TX91 transmitter					
PRTX-(*)	278	PR-12 RTD probe, 12" L, ¼" OD, 304 SS sheath, with TX92 transmitter					

\*Insert range code from chart below. Comes with complete operator's manual.

Ordering Example: NB1TX-K6, TX91 transmitter for Type K thermocouple, 0 to 1000°F output range. Transmitter housed in NB1-CASS-14U-12 Type K probe, \$237.

For complete information on NB1 thermocouple probes and PR-12 RTD probes, see Sections A and C.

## Accessories

Accessories						
Model No.	Price	Description				
TX90-BR	\$18	\$18 Mounting bracket				
PSR-24S	60	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL				
PSR-24L	60	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL				
PSR-24L-230	60	Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads, CE				
PSU-93	40	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal				
TX82B	150	Process loop-powered indicator (see TX82B)				
RT 20		1.2 m (48") mounting track				
TX90-DIN	27.50	DIN rail mounting adaptor				
RAIL-35-2	15	2 m (6.5') section 35 mm DIN rail				

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