

1000 OHM 375 PLATINUM RTD RANGEABLE TRANSMITTER *MODEL T91U*

DESCRIPTION

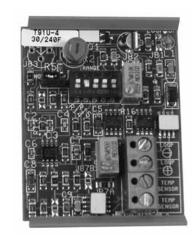
The **Model T91U** is a field-rangeable, two-wire 4-20 mA RTD transmitter used with Type 91 1000 Ω platinum RTD sensors. The transmitter is available in six standard ranges, or it can be set for any range between -30° to 250°F (-34° to 121°C) with a minimum span of 40°F (22°C).

To adjust the **Model T91U**, set the DIP switches to match the desired range, and use the zero and span pots to fine tune. A high accuracy digital ohmmeter and decade box are required.

The **Model T91U** has a special 20 mA loop calibration test signal to provide easy system verification. Simply move the bottle plug jumper from norm to 20, and the transmitter will output a constant 20 mA. The loop-up LED provides power indication for the 4-20 mA output.

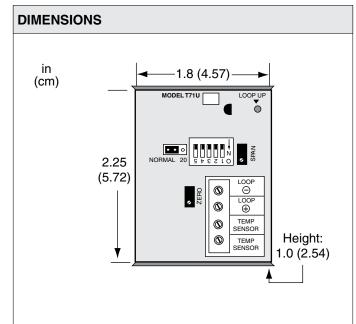
FEATURES

- DIP switch-rangeable
- Loop calibration test signal
- Low cost
- Snap-track mounting
- Loop-powered LED indication
- Fits into card slot of ST-U91 housing
- 18-month warranty
- CE approved (commercial and industrial)

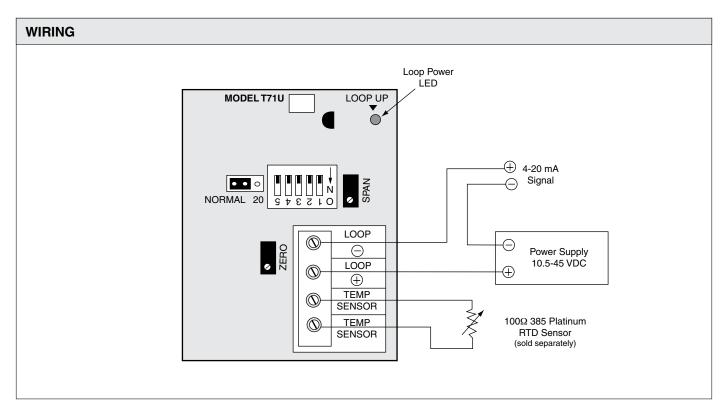


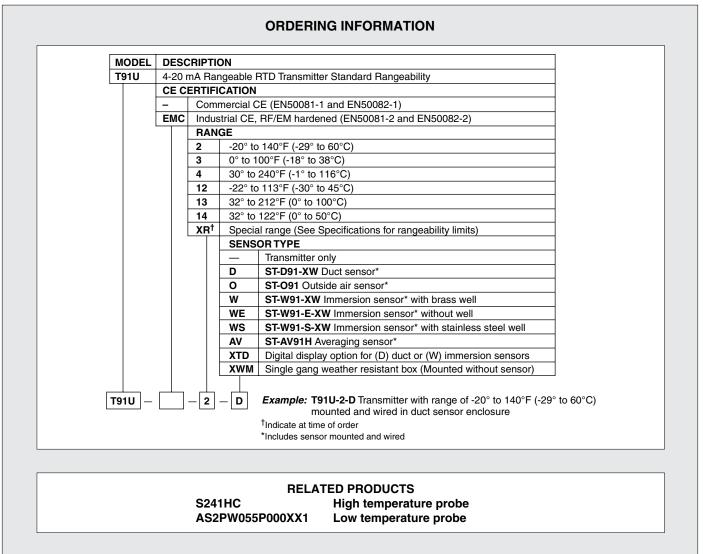
CE

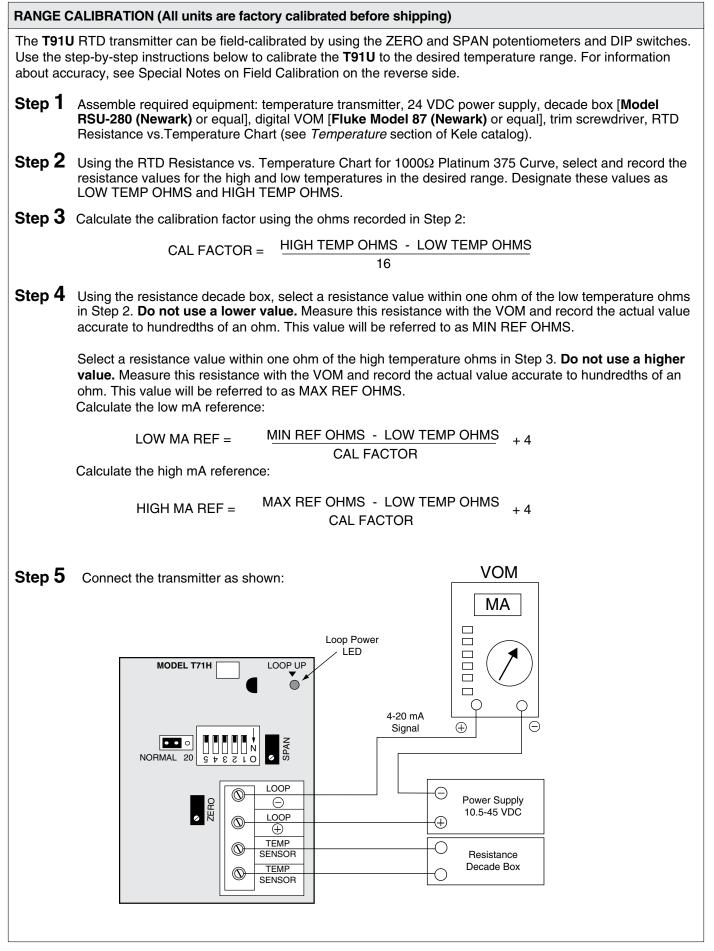
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SPECIFICATIONS			
Configuration Rangeability limits	TCR 0.00375 Ω/Ω/°C Two-wire, loop-powered Zero: -30° to 250°F (-34° to 121°C) Span : 40° to 280°F (22° to 156°C)	Max impedance Ambient temp Humidity	may power multiple units) 675Ω @ 24 VDC/375Ω with display 0° to 140°F (-18° to 60°C) 0% to 95% noncondensing
Agency Optional	CE (EN50081-1, EN50082-1) CE (EN50081-2, EN50082-2) Industrial RF/EM hardened	Accuracy Dimensions	0.1°F or 0.2% of span 1"H x 1.8"W x 2.25"L (2.5 x 4.6 x 5.7 cm)
Output Output limit Loop calibration output	4-20 mA 25 mA (sensor leads open) 20 mA ±0.2%	Display option (XTD)	3-1/2 digit LCD, NEMA 4 (IP65)







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Ud Se	t DIP switches 1 and 2 acc	ording to desi	ired ZER	O settin	g.			
	DESIRED ZERO	SWIT	CH 1	SWIT	CH 2	1	0 OFF→	
-3	80° to 30°F (-34° to -1°C)	Of	ff	0	ff			
30	0° to 90°F (-1° to 32°C)	Of	ff	0	'n	4 0		Example setting
90	0° to 150°F (32° to 66°C)	Or	n	0	ff	S S		is 0 to 100F
15	50° to 210°F (66° to 99°C)	Or	n	0	n	- [
the d	desired ZERO is very close esired setting, change the s et DIP switches 3, 4, and 5	witch setting	to the ne	ext range	and read	djust th	e poter	ntiometer.
	DESIRED SPAN (Hi-Lo) =		SWIT	•	SWIT			ITCH 5
	40° to 90°F (22° to 50°C)	-	0	n	0	า		On
	90° to 120°F (50° to 67°C)		0	n	0	า		Off
	120° to 150°F (67° to 83°C)	On		Off			On
	150° to 180°F (83° to 100°C)		0	n	O	f		Off
	180° to 200°F (100° to 111°C)		Off		0	า		On
	200° to 230°F (111° to 128	°C)	0	Off	0	า		Off
	230° to 250°F (128° to 139	°C)	0	Off	0	f		On
	250° to 280°F (139° to 156°C)		Off		Off			0"
desi	e desired SPAN is very close red setting, change the swite	e to a range bo ch setting to th	bundary he next r	and you ange an	cannot a d readjus	djust th st the po	otentio	
desi	e desired SPAN is very close red setting, change the swite Desired Range: 0° to -20° 30°	e to a range bo ch setting to th o 100°F (-18° t ' to 140°F (-29 to 240°F (-1° t	bundary he next r to 38°C) ° to 60°C to 116°C	and you range an Set s C) Set s	cannot a d readjus switches switches switches	djust th at the po 1-5; 00 1-5; 00 1-5; 00	otentio 110 100 010	N to the
desi	e desired SPAN is very close red setting, change the swite Desired Range: 0° to -20° 30°	e to a range bo ch setting to th o 100°F (-18° t ' to 140°F (-29 to 240°F (-1° t ' to 90°F (-23°	bundary a he next r to 38°C) ° to 60°C to 116°C to 32°C)	and you range an Set s C) Set s) Set s	cannot a d readjus switches switches switches switches	djust th at the po 1-5; 00 1-5; 00 1-5; 00	otentio 110 100 010	N to the
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