

TEMPERATURE

100 OHM PLATINUM RTD RANGEABLE TRANSMITTER T81U SERIES



DESCRIPTION

The **Kele T81U Platinum RTD Rangeable Transmitter** is a two-wire, 4-20 mA transmitter designed for use with Type 81 100Ω platinum RTD sensors. The transmitter is available in three 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 **T81U**, 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 **T81U** 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.

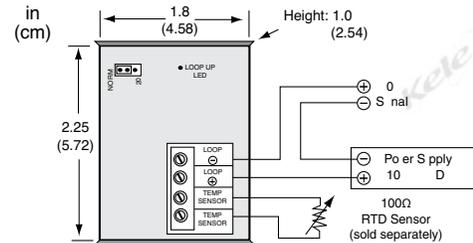


T81U

FEATURES

- **DIP switch rangeable**
- **Loop calibration test signal**
- **Snap-track mounting**
- **Loop-powered LED indication**
- **Conformal coated**

DIMENSIONS / WIRING



SPECIFICATIONS

Supply Voltage	10.5-45 VDC	Usable Range	-30° to 250°F (-34.4° to 121.1°C)
Accuracy	0.1°F or 0.2% of span TCR 0.00385 Ω/Ω/°C	Operating Temperature	0° to 140°F (-18° to 60°C)
Signal Output	4-20 mA @ 675Ω, two wire loop-powered	Operating Humidity	0% to 95% non-condensing
Sensor Element	100Ω platinum	Dimensions	1.8"W x 2.25"L x 1"H (4.6 x 5.7 x 2.5 cm)
Rangeability	-30° to 250°F (-34° to 121°C)	Weight	0.16 lb (0.07 Kg) w/o options
Zero	Minimum Span 40°F (22°C)	Approvals	CE
Minimum Span	-30° to 210°F (-34.4° to 98.9°C)	Warranty	1 year

ORDERING INFORMATION

MODEL	DESCRIPTION
T81U	4-20 mA RTD transmitter
RANGE	
2	-20° to 140°F (-29° to 60°C)
3	0° to 100°F (-18° to 38°C)
4	30° to 240°F (-1° to 116°C)
XR† Special Range	
SENSOR TYPE	
—	Transmitter only
D	ST-D81-XW duct sensor*
O	ST-O81 outside air sensor*
W	ST-W81-XW immersion sensor* with well
AV	ST-AV81H averaging sensor*
XWM	Single gang weather resistant box (mounted without sensor)

T81U - 2 - D

Example: T81U-2-D transmitter with range of -20° to 140°F (-29° to 60°C) mounted and wired in duct sensor enclosure

† Indicate at time of order
* Includes sensor mounted and wired

DCPA-1.2
DGP-1.5-W

RELATED PRODUCTS
Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
Power supply, 24 VAC IN to 24 VDC OUT