

# TEMPERATURE

## 100 OHM PLATINUM RTD RANGEABLE TRANSMITTER T71U SERIES



### DESCRIPTION

The **Kele T71U Platinum RTD Rangeable Transmitter** is a two-wire 4-20 mA transmitter designed for use with Type 71 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 **T71U**, 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 **T71U** 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.



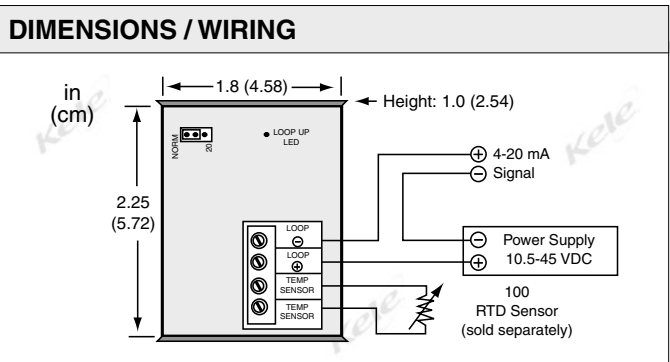
T71U



### FEATURES

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

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



### ORDERING INFORMATION

MODEL	DESCRIPTION
T71U	4-20 mA RTD transmitter
<b>CE CERTIFICATION</b>	
—	Commercial CE (EN50081-1 and EN50082-1)
EMC	Industrial CE, RF/EM hardened (EN50081-2 and EN50082-2)
<b>RANGE</b>	
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)
12	-22° to 113°F (-30° to 45°C)
13	32° to 212°F (0° to 100°C)
14	30° to 122°F (0° to 50°C)
XR†	Special Range
<b>SENSOR TYPE</b>	
—	Transmitter only
D	ST-D71-XW duct sensor*
O	ST-O71 outside air sensor*
W	ST-W71-XW immersion sensor* with brass well
WE	ST-W71-E-XW immersion sensor* without well
WS	ST-W71-S-XW immersion sensor* with stainless steel well
AV	ST-AV71H Averaging sensor*
XTD	Digital display option for (D) duct or (W) immersion sensors
XWM	Single gang weather resistant box (mounted without sensor)
<b>NIST CALIBRATION CERTIFICATE</b>	
XN3	3 point NIST certificate for T71U and sensor combination (not available with the AV option)

**Example:** T71U-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

### RELATED PRODUCTS

- DCPA-1.2** Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
- DCP-1.5-W** Power supply, 24 VAC IN to 24 VDC OUT