

Lumenite® Control Technology, Inc.

2331 N 17th Ave. Franklin Park, IL 60131 Phone: 847-455-1450 http://www.lumenite.com E-Mail: customerservice@lumenite.com

SERIES LSTT-4220 LUMENITE SANITARY 4-20mA TEMPERATURE TRANSMITTERS 3A LISTED AND CEE, THIRD PARTY VERIFIED

SINGLE PUSH BUTTON CALIBRATION— NO POTS TO ADJUST

DRIFT FREE DIGITAL LINEARIZATION

RE-RANGEABLE IN THE FIELD—ELIMINATES EXCESS INVENTORY

LED OVERRANGE INDICATION

AVAILABLE IN EVERY SANITARY TANK CONNECTION Single push button calibration



NO TEMPERATURE SENSOR EFFECT ON ACCURACY

3 WIRE RTD SENSOR INPUT

ALL WETTED PARTS HIGHLY POLISHED 316SS

NEMA 4X WATER-PROOF, CORROSION RESISTANT HOUSING

STANDARD RANGE: -328°F TO 1562°F

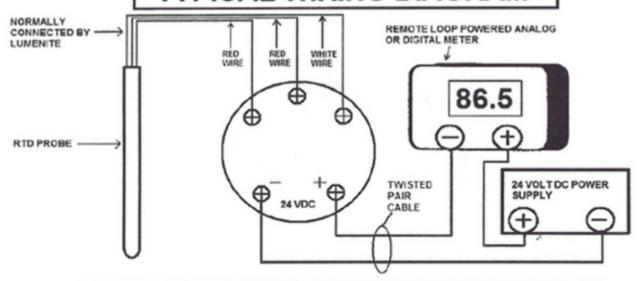
3 Wire Pt-100 Sensor (Pt-500 or Pt-1000 to order) BS EN 60751 Linearization BS 1904 (DIN 43760) (0.00385) JISC 1604 (0.003916) Excitation current 1 mA maximum -328 F to +1562 F Sensor Range Minimum span 40 F Lead resistance Maximum 10 ohms per leg 0.02% Full Range Output/ohm Effect (plus lead resistance mismatch) Red LED indicates when Burnout temperature range is exceeded 500 mS per sample Sample Rate ±0.2°F ±0.1% rdg -150°F to 950°F Accuracy ±0.4°F ±0.2% rdg -320°F to 1550°F Zero +0.01'F/F Thermal drift Span 50ppm Warm up time 2 minutes to full accuracy Reverse Polarity Protected Protection Indication Red LED indicates programming operations and out of range sensor

Programming switch

Momentary Push Button

Output Range 4-20 mA 2 wire loop powered (Can be ranged 20-4mA) Maximum 3.8 to 22 mA 8 to 30 VDC Supply Voltage 0.4uA/Volt Voltage effect Accuracy 45mA Up-scale 22mA (Downscale to Burnout order) Thermal drift Zero +0.12uA/F Span +0.28uA/*F Response time 500mS to reach 70% of Value Loop resistance Max. 800R at 24VDC Ohme 1256 1008 Load 750 Resistance 500 Valte 20 25 30 Power Supply +0.1uA n-p Loop noise Ripple rejection +0.002uA/Volt (measured @ 50 Hz 1 volt p-p)

YPICAL WIRING DIAGRAM



SPECIFICATION AND ORDERING KEY FOR LSTT SERIES

LSTT-4220- C1.5 = 1.5" 16AMP TRI-CLAMP CONNECTION C2 = 2"

A1.5 = 1.5" 16A BEVEL SEAT CONNECTION

A2 = 2"

LENGTH IN INCHES OF RTD PROBE

TEMPERATURE RANGE ie. 0-300°F

SPECIFY ALTERNATE SANITARY FITTING

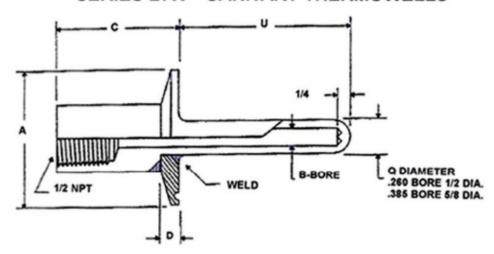
EQUALS LUMENITE SANITARY 4-20 mA MODEL LSTT-4220-C2-4in-350°F EXAMPLE: TEMPERATURE TRANSMITTER, WITH 2" TRI-CLAMP TANK CONNECTION, 4 INCH RTD PROBE FACTORYCALIBRATED 4mA = 0°F, 20mA = 350°F.



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SERIES LTW—SANITARY THERMOWELLS



SPECIFICATION /ORDERING KEY:

EXAMPLE: TYPE LTW-2-1.75-4.5-0.25-0.26 IS A 316 STAINLESS STEEL ELECTRO POLISHED THERMOWELL WITH 2" TRI-CLAMP TANK CONNECTION.

1.75 INCH "C" DIMENSION. 4.5 INCH INSERTION LENGTH. 0.25 INCH

DIAMETER, AND 0.26 INCH BORE.

STANDARD DIMENSIONS

CAP SIZE	Α	D
1 1/2 IN	1.984	.250
2 IN	2.516	.250
2 1/2 IN	3.407	.250
3 IN	3.579	.250
4 IN	4.682	.250

STEM LENGTH	С	U	BORE SIZE
2 1/2	1.25	1.5	.260 OR .385
4	1.75	2.5	
6	1.75	4.5	
9	1.75	7.5	