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4 to 20 mA

SOUND LEVEL TRANSMITTER

Model : TR-SLT1A4

Socket type



Caution Symbol



Caution :

- * Do not apply the overload voltage, current to the input terminal !
- * Power off before
 - @ Disconnecting the " Power Source " from the " AC Power Input Terminal "
 - @ Disconnecting the " Output Signal Wires " from the " Signal Output Terminals "
 - @ Taking away the " Sensor Plug " away from the " Sensor Plug Input Terminal ".
- * Cleaning - Only use the dry cloth to clean the plastic case !

Environment Conditions

- * Installation categories II.
- * Pollution Degree 2.
- * Altitude up to 2000 meters.
- * Relative humidity 80% max.

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1. SPECIFICATIONS

Measure Range	Range 1 : 30 - 80 dB.
	Range 2 : 50 - 100 dB.
	Range 3 : 80 - 130 dB.
Output	4 - 20 mA
	Range 1 : 30 dB : 7.69 mA. 80 dB : 13.84 mA.
	Range 2 : 50 dB : 10.15 mA. 100 dB : 16.3 mA.
	Range 3 : 80 dB : 13.84 mA. 130 dB : 20 mA.
Accuracy ($23 \pm 5 \text{ }^\circ\text{C}$)	Frequency weighting meet IEC 61672 type 2, calibrating input signal on 94 dB (31.5 Hz to 8 kHz), then the accuracy of A weighting is specified as following: 31.5 Hz - ± 3.5 dB, 63 Hz - ± 2.5 dB, 125 Hz - ± 2.0 dB, 250 Hz - ± 1.5 dB, 500 Hz - ± 1.9 dB, 1 kHz - ± 1.4 dB, 2 kHz - ± 2.6 dB, 4 kHz - ± 3.6 dB, 8 kHz - ± 5.6 dB Characteristics of A weighting.

Frequency Weighting Network	A weighting : The characteristic is simulated as "Human Ear Listing" response.
Frequency	31.5 Hz to 8,000 Hz.
Time Weighting	Fast time weighting <i>@ t = 200 ms</i> <i>@ Fast time weighting is simulated the human ear response time weighting.</i>
Calibrator	B & K (Bruel & Kjaer) : Multi-unction acoustic calibrator, model :4226
Microphone	Electric condenser microphone.
Size of Microphone	1/2 inch standard size.
Range Selector	30 to 80 dB, 50 to 100 dB, 80 to 130 dB, 50 dB on each step.
External Adjustment	SPAN VR (20 mA adjust VR)
Max. Output Load	200 ohms.
Power Supply	90 - 260 ACV 50 Hz/60 Hz
Power Consumption	AC 110 V : Approx. 1.3 VA. AC 220 V : Approx. 1.6 VA.
Mounting	Din rail or wall.
Case	ABS plastic
Operation Temperature	0 to 50 °C (32 to 122 °F)
Operation Humidity	Less than 80 %RH
Dimension	See page 7.
Accessory Included	Instruction manual..... 1 PC. Sound sensor probe..... 1 PC.

5. DIMENSION DIAGRAM

6. FREQUENCY WEIGHTING CHARACTERISTICS OF A FREQUENCY NETWORKS

Frequency	A Weighting Charac.	Tolerance (IEC 61672 type 2)
31.5 Hz	-39.4 dB	± 3.5 dB
63 Hz	-26.2 dB	± 2.5 dB
125 Hz	-16.1 dB	± 2.0 dB
250 Hz	-8.6 dB	± 1.5 dB
500 Hz	-3.2 dB	± 1.9 dB
1 k Hz	0 dB	± 1.4 dB
2 k Hz	+1.2 dB	± 2.6 dB
4 k Hz	+1 dB	± 3.6 dB
8 k Hz	-1.1 dB	± 5.6 dB

7. FAST TIME WEIGHTING CHARACTERISTICS

Max. response ref. continuous signal	Tolerance (IEC 61672 type 2)
- 1.0 dB	+ 1 dB, - 2 dB

**8. THE ADDRESS OF AFTER SERVICE
CENTER**

