

4 to 20 mA IOT transmitter

SOUND LEVEL TRANSMITTER

Model : TRSL-401

ISO-9001, CE, IEC1010

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02-2389-0101



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The Art of Measurement

SOUND LEVEL TRANSMITTER**Model : TRSL-401**www.YaLAB.com.tw 02-2389-0101**FEATURE**

- * 4-wire installation.
- * Linear current output .
- * Easy installation and connection.
- * Sound level range 30 to 130 dB .
- * Frequency and Time weighting are designed to meet IEC 61672 class 2.
- * A & C weighting networks comply with standards.
- * 0.5" standard microphone head.
- * Time weighting (Fast) dynamic characteristic modes.
- * Build External Zero& span calibration VR.
- * Auto range

GENERAL SPECIFICATION(23± 5 °C)

Circuit	Custom one-chip of microprocessor LSI circuit.
Measurement Type	SPL : Sound pressure level
Measurement Range	30 - 130 dB.
Function	dB (A & C frequency weighting), Time weighting (Fast),
Accuracy (23 ±5 °C)	Characteristics of " A ", " C " frequency weighting network meet ANSI S1.4-2014 / IEC 61672 -1 : 2013 class 2 Under 94 dB input signal, the accuracy are : 31.5 Hz ±3.0 dB 63 Hz ±2.0 dB 125 Hz ±1.5 dB 250 Hz ±1.5 dB 500 Hz ±1.5 dB 1 K Hz ±1.0 dB 2 K Hz ±2.0 dB 4 K Hz ±3.0 dB 8 K H z ±5.0 dB <i>Remark :</i> <i>The above spec. are tested under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.</i>
Frequency Weighting Network	Characteristics of A & C. A weighting : The characteristic is simulated as "Human Ear Listening" response. Typical, if making the environmental sound level measurement, always select to A weighting. C weighting The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.
Time weighting (Fast)	Fast - t = 125 ms * "Fast" range is simulated the human ear response time weighting.
Frequency	31.5 to 8,000 Hz.

Microphone type	Electric condenser microphone.
Microphone size	Out size, 12.7 mm DIA. (1/2 inch).
Analog output	Analog output: 4 to 20 mA. * <i>linear to temperature.</i>
Loop impedance	Max. 90 Ω @24 V DC.
Power supply	Isolated Power 9VDC to 30VDC. * <i>Ripple < 2.5%</i>
Operation Temp.	0°C to 50°C /32°F to 122°F.
Operation humidity	Max. 85% RH.
Dimensions	120 mm x 96 mm x 43 mm
Weight	340 g/0.75 Lbs without batteries.
Enclosure rating	meter : IP63 . Probe (Microphone) : IP40 .
Accessories Included	* Instruction manual 1 PC * Sound probe 1 PC * probe holder 1 PC

* Appearance and specifications listed in this brochure are subject to change without notice.

TRSL-401+211006

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