



CANSTAR DASC-130 LOGARITHMIC SOUND TRANSMITTER



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The Canstar Instruments' Logarithmic Sound Transmitter provides for relative sound pressure levels over a 60 dBA range with a linear sensitivity of 2 mA per 10 dBA. This 4-20 mA sourcing sensor is useful for providing automatic instrumentation feedback for (air raid) siren testing, remote steam releases, safety pressure valves, well leaks, etc.

Calibration is based on relative sound levels to a known source. The sound enters end opposite the 3/4" NPT fitting through protected diaphragm.

The three wire device has 18" pigtails extending through its 3/4" NPT fitting (others available upon request) and is suitable for direct mounting to a threaded wiring enclosure. The 1.25" hex by 4.25" long housing is CNC machined from aluminum bar stock and has a protective weather proof grill and diffuse baffle at the sound entry end.



Specifications for the standard model DASC-130 Logarithmic Audio Transmitter:

Measurement:

Device model:	Three wire 4-20 mA transmitter
Output:	4 – 20 mA Linear Output
Measurement Range:	60 dBA with a nominal midrange of 12mA at 110 dBA sound pressure level
Accuracy:	± 20%
Sensitivity:	2 mA per 10dBA
Response:	Nom. 20 mA drop per 10 dBA sound pressure below 20 mA
Temperature ratings:	storage: -40 to +85 °C operation: -40 to +50 °C.
Type of measurement:	measurements are relative, not absolute

Mechanical:

Dimensions:	1.25" Hex by 4.25"
Housing:	Standard: Aluminum bar stock CNC machined housing Others available upon request
Mechanical Connection:	3/4" NPT fitting (others available upon request)
Mounting torque:	max. 25 ft/lbs
Rating:	weatherproof
Area Classification:	none, general area only

Electrical:

Electrical:	10 – 28 Vdc
Wiring:	three wire design: +10 Vdc to +28 Vdc (red), Common (black), Current Source (white) 4 – 20 mA current source to power supply common

Calibration:

Field calibration:	Required once mechanical orientation has been established
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Note: the sensitivity of the sensor, and therefore the output of the sensor is dependant on the distance and the orientation of the sensor to the sound source.

The sensor provides a repeatable response.

Delivery: Stock, pending prior sale

CANSTAR for your Custom Measurement Devices

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