Tilt, inertial and vibration

Vibration and Temperature Transmitter, 4–20mA, 0–5V or 0–10V

Model DW-VT

Vibration transmitter that measures vibration velocity (RMS) and surface temperature on motors, pumps, fans and gearboxes, with a 4–20 mA, 0–5 V or 0–10 V output, a 10–30 V DC supply and a 304 stainless steel housing for threaded or magnetic mounting.



Velocity range
0–50 mm/s (0–199.9 mm/s version)

Output
4–20 mA, 0–5 V or 0–10 V

Protection
IP67

Features

- Measures vibration velocity (RMS) and surface temperature
- MEMS vibration chip with embedded temperature sensing
- 4–20 mA, 0–5 V or 0–10 V output to a PLC or DCS
- Three frequency ranges: 10–1600 Hz, 10–5000 Hz or 10–12000 Hz
- 10–30 V DC wide-range supply
- Small 304 stainless steel housing, threaded or magnetic mounting
- Factory calibrated, no recalibration needed

Applications

Motors and generators, Gearboxes, Fans and air compressors, Centrifuges, Pumps and submersible pumps, Mining, chemical, metallurgy and power plants

Specifications

Performance

Measured variable	Vibration velocity (RMS) and surface temperature
Velocity range	0–50 mm/s (10–1600 Hz and 10–5000 Hz versions); 0–199.9 mm/s (10–12000 Hz version)
Velocity accuracy	±1.5% FS (at 1 kHz, 10 mm/s)

Frequency response	10–1600 Hz / 10–5000 Hz / 10–12000 Hz (by version)
Measuring direction	Z axis (perpendicular to the mounting surface), single axis
Temperature measuring range	−40 to +80 °C (surface)
Temperature accuracy	±2 °C (surface at 60 °C, ambient 25 °C, with thermal grease and insulating sleeve)

Output

Output signal	4–20 mA / 0–5 V / 0–10 V
Output load	Current output ≤600 Ω; voltage output ≤250 Ω

Electrical

Power supply	10–30 V DC
Power consumption	Max. 1.2 W

Mechanical

Housing material	304 stainless steel
Installation method	Threaded stud (M5×0.8, M8×1.25; M10×1.5 or 1/4" with adapter) or magnetic base

Environmental

Operating temperature	−40 to +80 °C
Operating humidity	0–80% RH
Contact surface temperature	−40 to +150 °C (default 85 °C)
Ingress protection	IP67

Ordering and support

Pricing, samples, lead time and custom versions: xyx@gzdwin.com, +86 181 0280 8901.

Guangzhou Dwin Technology Co., Ltd., 4th Floor, Building 2, No. 4, Xingye Street, Xiaowu, Nansha District, Guangzhou, China. Specifications are typical values and may change without notice; confirm critical values with DWIN before design-in. Revision 2026-11.