

VR2 hand-held indicator



product description

The VR2 is a versatile, hand-held display for strain gauge sensors. This portable device offers the perfect combination of flexibility and performance suitable for a broad range of measurement tasks. With up to six calibration ranges, advanced multi-point calibration, and TEDS compatibility, the VR2 ensures precise and reliable data, all packaged in a compact and ergonomic device, ensuring accurate data acquisition wherever you are.

applications

Test and measurement tasks, calibration and verification, lifting and handling, silo weighing

accessories

Magnetic Pad: 66mm diameter, optional ball joint

Fixed Mount: For permanent fixing to walls, dashboards, and desktops

Mating Connector: Options for 2.5 to 8mm cable diameters

USB Cable: Right-angle micro-USB

Carry Case: Holder with strap for easy portability

Batteries: Operates on 2 x AA alkaline batteries or USB power

key features

Six calibration ranges

Multi-point and polynomial calibration

TEDS compatible

Ergonomic design with improved grip and shock protection

High-resolution 128 x 64 dot matrix backlit display

USB connectivity for configuration, calibration, and data logging

Durable construction with IP64 environmental protection

Windows-based toolkit software



RoHS
compliant



specifications

| | | | | |
|-------------------------------------|--------------|--|-----------|--------------|
| Measurement Method | - | 6 wire (Can accept a 4 wire input.) | | |
| Excitation Voltage | VDC | 3.2 (min) | 3.3 (typ) | 3.4 (max) |
| Drive Capability | Ohm | 85 (min) | | 10,000 (max) |
| Sensitivity FSR Ranges ¹ | mV/V | ±7.0(min) | | ±448(max) |
| Linearity ² | ppm/FSR | ±2 (typ) - In high quality operating mode | | |
| Offset Temperature Stability | nV/°C | 12(typ) - at 2.5mV/V | | |
| Gain Temperature Stability | ppm/°C | 1 (typ) | | 2 (max) |
| Internal Resolution | bit | 24 | | |
| Resolution at 1 SPS | Counts (bit) | 1,100,000 (20) - Noise free at ±7.0mV/V range | | |
| Resolution at 10 SPS | Counts (bit) | 550,000 (19) - Noise free at ±7.0mV/V range | | |
| Resolution at 2,400 SPS | Counts (bit) | 6,500 (14.3) - Noise free at ±7.0mV/V range | | |
| Filters | - | - | | |
| Display Resolution | Pixels | 128 x 64 | | |
| Buzzer Acoustic Output | dB | 45 (typ) | | |
| Power Supply ^{3, 4} | (no units) | 2x AA (LRx) or USB powered | | |
| Power Consumption | mA | 35 - Measurement operation | | |
| Standby Current | µA | 75 | | |
| Battery Life Low Quality 1Hz | Hrs | 220 | | |
| Battery Life High Quality 1,200Hz | Hrs | 60 | | |
| Operating Temperature Range | °C | -10(min) | | 50(max) |
| Storage Temperature Range | °C | -20(min) | | 80(max) |
| Operating Humidity Range | %RH | 0 (min) | | 95 (max) |
| Environmental Protection | - | IP64 (With connector mated or unmated) | | |
| External Dimensions | mm | L: 170mm, W: 94mm, H: 42mm (Excluding mated connector) | | |
| Weight | g | 365 (Including batteries) | | |

1. Effective sensitivity from ±0.5mV/V with reduced resolution

2. Linearity error can be further reduced by device linearization calibration

3. Battery operation below 1.5V (2xAA in series) not guaranteed to provide specified performance

4. Using Energizer L91 3,000mAh cells

Specifications and dimensions are subject to change without notice.