INTRINSICALLY SAFE VW READOUT

GEOKON®





Model 404 Intrinsically Safe Vibrating Wire Readout.



The Model 404 Readout is easily held and operated with one hand.



Model 404 in carry case (included)

APPLICATIONS

The Model 404 Intrinsically Safe Vibrating Wire Readout is for use with specifically designed GEOKON vibrating wire sensors such as piezometers, crackmeters, stressmeters, etc. The readout has IECEx approval (IECEx SIM 13.0014x) for use in underground coal mines in Australia. Approval for use in other countries must be confirmed with the requisite authorities.

OPERATING PRINCIPLE

The Model 404 Intrinsically Safe Vibrating Wire Readout is a portable, low-power, hand-held unit, designed in cooperation with GEL Instrumentation,* that is capable of running for more than 6 hours continuously on a single charge.

The Model 404 is designed to read specific GEOKON vibrating wire sensors in hazardous environments (IECEx ia, approval SIM 13.0014X) and is approved only for designated Geokon sensors, identified as Type 1, Type 2, Type 3 and Type 4.

It is capable of displaying the reading in either digits, frequency (Hz), period (µs) and in the case of strain gauges (position C, D and E), in microstrain (µe). The use of vibrating wire transducers allows highly accurate measurement for critical monitoring. The Model 404

The Model 404 is based on the

GEOKON Model GK-404 Readout and

provides 6 excitation positions (A-F)

with a display resolution of 0.1 digit.

for critical monitoring. The Model 404 also displays the temperature of the transducer with a resolution of 0.1 °C.

ADVANTAGES AND LIMITATION

The Model 404 has a sealed enclosure and a four-switch membrane keypad that can be operated with one hand. The stainless steel enclosure provides rugged protection for the internal circuits.

The 16 × 2 character LCD display allows the user to adjust backlight and contrast. The large display size makes it easy to read in all situations, while retaining hand-held convenience. Power is provided by integral NiMH cells, which are recharged away from the hazardous environment using the supplied compact charger. Power features include an automatic power-off option, battery monitor display and low battery warning. Settings are retained between powerons.

This readout box does not have data storage capabilities.

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SYSTEM COMPONENTS

The Model 404 is supplied complete
with a standard crocodile/alligator clip
type sensor cable, wall charger and
canvas carrying case.The carrying case will protect the
readout in underground environments
and includes a pouch for the sensor
cable and a shoulder carry strap.

TECHNICAL SPECIFICATIONS	
Display Resolution	Period: 0.1 microsecond Strain: 1 microstrain Hz ² × 10 ⁻³ : 0.1 digit Frequency: 0.1 Hz Temperature: 0.1 °C
Measurement Accuracy	VW sensor: 0.025% F.S. Temperature: 1.0% F.S.
Timebase Accuracy	±50 ppm
Excitation Range	400 Hz to 6000 Hz, 5 Volt Square Wave
Temperature Range	-20 °C to +40 °C
Battery	Type: Integral NiMH cells Life: 6 hours at 20 °C (per charge)
Weight	1020 g (excluding carry case)
$L \times W \times H$	165 × 110 × 45 mm

Model 404 dimensions.



Sensor cable and compact charger (included).



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