

HS-630 Compact and Portable Meter

Vibration and temperature outputs

Key Features

- Velocity & bearing condition
- Used to monitor vibrations and temperature without installing equipment
- Rechargeable battery used with mains or in-car charger
- Sensor/cable fault indicator
- Display hold function
- Choice of metric or imperial measurement



Product Description

The HS-630 portable Vibration and Temperature Meter Kit has been designed for use as both an entry level and also a comprehensive vibration/temperature monitoring instrument for maintenance engineers across all types of industry.

The kit consists of the compact vibration meter with a combined non-contact temperature measuring sensor aided by a locator beam, a hand held probe, a magnetic mount for more permanent installations, a protective carrying case, an instruction manual and battery chargers for both mains and in-car use.

The meter is microprocessor based and by selection of the controls can be easily set up to monitor acceleration (g) levels, velocity (mm/sec), displacement (μm), bearing condition (BG or BV) and temperature ($^{\circ}\text{C}$ or $^{\circ}\text{F}$). A display hold function is also included.

The unit, which conforms to ISO 2954 and ISO 10816-3 also has an automatic alarm check for bearing condition.

Operating from an internal re-chargeable Lithium battery, the meter offers 48 hours continuous operation. From flat, the unit can be recharged in 3 hours using either the mains or in-car charger supplied with the kit.

Because of its compact size, ease of use and battery operation, the HS-630 allows engineers to monitor vibration and temperature levels on important machinery anywhere around the factory.

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Vibration and temperature outputs

Technical Performance

| | |
|-------------------|--|
| Input | 100 mV/g constant current accelerometer other inputs on request |
| Accelerometer | Hand held, supplied with 0.8 M cable |
| Vibration | Acceleration ... 0-50 g Peak Velocity ... 0-350 mm/s RMS Displacement ... 0-4000 µm pk-pk Bearing Condition (BG) ... 0-18 g RMS Bearing Condition (BV) ... 0-25 mm/s RMS |
| Accuracy | ± 5% |
| Bearing | Acceleration ... 5 Hz to 12 kHz Velocity ... 10 Hz to 1 kHz Displacement ... 10 Hz to 1 kHz Bearing Condition (BG & V) ... 1 kHz to 12 kHz Automatic Alarm Check for Bearing Condition |
| Temperature Range | -40°C to +150°C or -40°F to +300°F |
| Laser Guide | Red, <1 mW, IEC 60825-1 compliant |
| Distance Range | For temperature measurement 0 to 2 metres. Distance/Spot Dia. Ratio 8:1 |
| Accuracy | ±2% |
| Display | LCD |
| Hold Mode | Displays alarm status against ISO 2954 & ISO 10816-3 |

Environmental

| | |
|---------------------------|--|
| Temperature Range (meter) | Operating ... -10 to 50°C Storage ... -20 to 60°C |
| Temperature Range (accel) | -20 to 90°C |
| Sealing | IP64 - Dust tight and splash-resistant |
| EMC | EN61326-1:2013 |

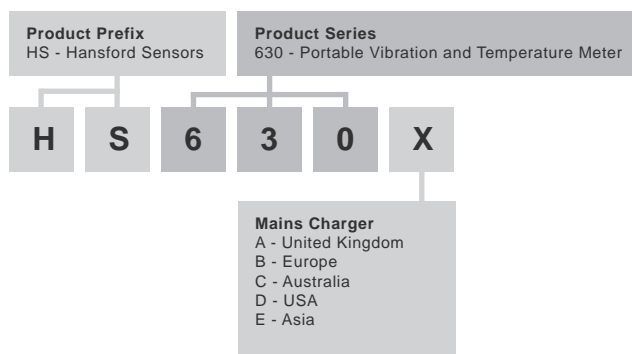
Electrical

| | |
|----------------|--|
| Power | Lithium rechargeable battery 3.6 Volts, 1700 mA hours 48 hours continuous operation Auto switch-off after 3 minutes |
| Battery Charge | 3 hrs from flat, supplied with meter, charger & car charger |

Mechanical

| | |
|---------------|---|
| Case Material | Plastic |
| Dimensions | 115 x 70 x 25 mm |
| Weight | Meter - 160 gms Accelerometer (incl cable) - 200 gms |
| Magnetic Base | 12 kg pull strength |
| Spike | 70 mm |

How To Order



Accessories

| | |
|--------------------------------------|------------------|
| Hand-Held Probe | (HS-6201005501) |
| Magnetic Mount | (¼-28" UNF Male) |
| Stainless Steel Vibration Spike 75mm | (HS-AS054-075) |
| 80cm Cable with BNC & TNC Connectors | (AC-095) |
| In-Car Battery Charger | (HS-AA032) |
| Mains Battery Charger | (HS-AA033) |
| Carry Case | (HS-AA034) |
| Replacement Battery | (HS-AA035) |