

Specifications of HSE Equipment – TE129

Order	Equipment	Specifications
1	Seismograph	<p>Power source: 4 alkaline D cells Battery life: up to 30 days (24hours/day) Dimensions : 300mm x 250mm x 180mm Weight: 3 kg Operating temperature: -5 to 50 C Optional modem specifications: Power source: separate internal 12V battery gives up to 30 days remote monitoring (24hours/day) Battery charger: can be used to power the seismograph GSM Functions: Remote download of the Seismograph memory Remote operation of the Seismograph Watch the Seismograph monitoring in real time SMS alarm warnings (6 of) Programmable timed data upload Accessories: 1 x tri-axial geophone pack 1 x CD ROM containing Vibrock Software 1 x instruct on book 1 x USB download lead 1 x shoulder bag 1 x calibration certificate Options: Modem connectivity Text alerts (status and alarms) Model - V9000</p>
2	Environmental PM10 Air Monitor	<p>Display: Large alphanumeric LCD- 4 line, 20-character display Operation: Four key splash proof membrane switch – menu driven Calibration: NIOSH gravimetric method Sensing range: .001-20.0 mg/m3 .01-200.0 mg/m3 (optional) Particle size range: 0.1-100 µm Precision: +/- 0.003 mg/m3 (3 µm/m3) Accuracy: +/-10% to NIOSH #0600 using ARD Sampling flow rate: 1.0 – 4.3 liters/minute Filter cassette: 47mm disposable EPA FRM Style Alarm output: 90db at 3ft. Recording time: 1 sec. To 15 months Sampling rate: 1 sec., 10 sec., 1 min., and 30 min. Data storage: 21,600 data points Security code: 4-digit combination Memory & time storage: > 10yrs Real-time clock & data display Data display: concentration in mg/m3</p>

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		<p>& TWA, MAX, MIN, STEL, DATE/TIME Digital output: RS-232 Operating Temperature: -10o C to 50o C Storage Temperature: -20 to 60o C Dust COMM Pro software: Windows™ driven for graphical and data translation Power: Rechargeable battery Operating time: > 24 hours Charging time: 22 hours Humidity: 95% non-condensing Dimensions (case): 14.0" x 6.0" x 10.0" Weight: 12 lbs. Model EPAM-5000</p>
3	Environmental Noise Device	<p>Measuring variable Level / Distance Power supply (18~28) VDC Measuring range (0~5) m / (0~10) m / (0~15) m Accuracy ±0.5% FS Blind area ≤0.4m (5m、 10m) ≤0.5m (15m) Resolution 1mm or 0.1%FS (maximum) Display Monochrome LCD with resolution of 128 * 64 Current output (4 ~ 20) mA, the output accuracy is 0.2%FS Output load is (U-18V)/0.02A (U: supply voltage,2-wire) Output load is (U-14V)/0.02A (U: supply voltage,4-wire) Communication RS485 (4-wire) Relay output 2 groups (4-wire optional) Working temperature Instrument: (-20~+60) °C Probe: (-20~+80) °C Ingress Protection Instrument: IP65 Probe: IP68 Relative humidity (10~85) %RH (no condensation) Language Chinese/English Installation method Threaded installation Display method With display (Optional without display. Refer to 1.5 for settings without display) parameters of remote type Measuring variable Level / Distance</p>

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		<p>Power supply (100~240) VAC,5W Max,50/60Hz; (18~28) VDC Measuring range (0~5) m / (0~10) m / (0~15) m Accuracy ±0.5% FS Blind area ≤0.3m (5m) ≤0.35m (10m) ≤0.5m (15m) Resolution 1mm or 0.1%FS (maximum) Display Monochrome LCD with resolution of 128 * 64 Current output Isolated (4 ~ 20) mA, the maximum load is 500Ω, and the output accuracy is 0.2%FS Communication Isolated RS485 Modbus-RTU Communication Protocol Relay output 2 groups (i.e. AC 250V/ 8A or DC 30V/ 5A) optional, 4groups optional Working temperature Instrument: (-20~+60) °C Probe: (-20~+80) °C Ingress Protection Instrument: IP65 Probe: IP68 Probe cable 10m (standard configuration), 30m available Relative humidity (10~85) %RH (no condensation) Language Portuguese/English Installation method Wall mounted installation Model -CK:685 Environmental Noise Measurement</p>
4	<p>Submersible Electric Portable Pump</p>	<p>Power input: 1.3 kW Voltage: 3 x 220 V, 400 Hz Maximum current: 5.5 A Motor protection: Built-in thermal switch Water temperature: 0 °C to +35 °C Discharge port: Rp 3/4 Continuous operation: Maximum 500 hours Net weight: 2.5 kg Diameter maximum 3 cm Frequency converters: Supply voltage: 1 x 200-240 V (+/- 10%), 50/60 Hz Minimum generator size: With voltage control:</p> <ul style="list-style-type: none"> • 3.0 kVA (suitable for non-linear loads, minimal value) • 4.5 kVA (suitable for non-linear loads, recommended value) • 7.5 kVA (not suitable for non-linear loads)

Specifications of HSE Equipment – TE129

		<p>Nominal input current: 12.9 A Nominal output current: 7.0 A Supply voltage: 1 x 110-115 V (+/- 10%), 50/60 Hz Minimum generator size: With voltage control:</p> <ul style="list-style-type: none"> • 2.2 kVA (suitable for non-linear loads, minimal value) • 3.3 kVA (suitable for non-linear loads, recommended value) • 5.5 kVA (not suitable for non-linear loads) <p>Nominal input current: 21.9 A Nominal output current: 5.8 A Fuse: 10 A Power factor: 0.65 Connecting cable: 3 x 1.5 mm² , 3 m with plug. Output voltage: 3 x 15.4 V, 25 Hz, to 3 x 235 V, 400 Hz Motor protection: Built-in overcurrent protection, set to 6.1 A Acceleration time: 0 to 400 Hz: Maximum 6 sec Deceleration time: 400 to 0 Hz: Maximum 6 sec Enclosure class: IP66 Ambient temperature: -10 °C to +40 °C Relative air humidity: Maximum 95 % Model -Grundfos</p>
5	Gas Tester	<p>Drop test 10 feet Battery Rechargeable li-ion or AA alkaline Run time 20 hrs @ room temperature Charging time <= 6 hours Operating temperature -20 C to + 50C</p>
6	Water Level Meter	<p>Accurate: Markings each 1/100 ft. or millimeter Traceable to national standards Sensitivity adjustable to conductivity Probes avoid false readings in cascading water</p> <p>Reliable: Permanent laser markings Non-stretch PVDF flat tape with stainless steel conductors</p> <p>Long Life: Rugged, corrosion proof components Strong, flexible tapes Easy to splice and repair Model - Heron dipper-T2 1200-200M</p>

Prepared by: HSE Department