

SCIENTIFIC INSTRUMENT

Thermo-Anemometer

Model: 8585

- Store up to 999 readings
- Recalls average, minimum, maximum and total volume data
- Takes continuous readings in a datalogging mode
- Downloads stored data to a computer
- Faster key response
- A good use for the 8585 is in face velocity traverses or at HEPA filters

SPECIFICATIONS

Range	Velocity:	30-999 fpm
	Volume:	0.2-2, 600000cfm
	Temperature:	14-140 °F
	Humidity:	5-95%
Resolution	Velocity:	1 fpm
	Temperature:	0.1 °F
	Humidity:	0.1%
Accuracy	Velocity:	±3% of reading or ±3fpm(Whichever is greater)
	Volume:	±3% of reading
	Temperature:	±5 °F
	Humidity:	±3%
Display		4.5 Digit LCD with Blacklight

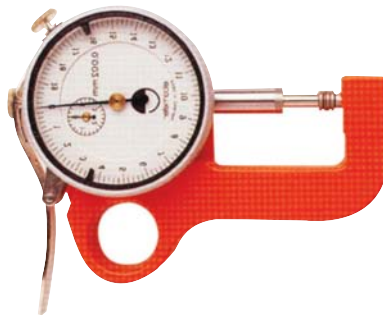


AK00025

Elcometer 124 Thickness Gauge

The Elcometer 124 Thickness Gauge is used to measure the peak-to-valley height of a surface profile formed in the Elcometer 122 Testex Tape. Available in both Metric and Imperial versions

- Low cost, easy and quick to use
- Provides a permanent record of surface profile for your ISO requirements
- Can be used in accordance with ASTM D 4417 method C and NACE RP0287-95



AK00026

Elcometer 456 Coating Thickness Gauge

The recently introduced Elcometer 456 is perhaps the most advanced coating thickness gauge on the market today. available in an integral (internal probe) or separate probe format to suit your application needs.

Integral probes are ideal for flat or uneven surfaces, separate probes allow the user to access tight areas or measure coatings on small components.

Separate probe versions are ideal for measurements on almost any metal substrate irrespective of form and offers greater access in confined spaces.

With a wide range of probes available, including the new Plug-in Integral Probes (PINIP™) which transforms a separate probe back into an Integral for single handed operation, the Elcometer 456 offers you the widest choice on coating thickness.



AK00027

Cat. No. 2030E

Portable Cable Locator (Transmitter and Receiver)



AK00028

- This instrument is ideal for complete tracing and fault detection of cables installed in buildings
- Locating cable interruptions
- Tracing cables in walls and floors (floor heating)
- Locating short circuits in cables or lines
- Locating and assigning fuses
- Tracing water and heating pipes in walls and floors
- Assigning complete house network (electrical connection, water and gas piping), e.g. old building reconstruction
- Simultaneous sorting of up to 16 lines (more than one transmitter required)
- Transmitter is voltage-proof up to 440V AC
- Cable locator booklet (practical instruction manual) for:
 - locating line interruptions
 - locating lines in walls
 - locating bottlenecks (obstructions) in installation pipes
 - locating short-circuits in lines
 - tracing installed water and heating pipes
 - sorting of up to 16 lines (several transmitters required)

Description:

The Cable Locator consists of a transmitter and a receiver. The transmitter sends a digitally coded line number which is selectively received and displayed as a digit by the receiver. A field strength indicator and a button-controlled sensitivity fine adjustment enable easy location of the transmitter signal. using several transmitters with different line numbers a contact-free sorting up to 16 lines is possible. The transmitter signal strength is pre-adjustable by means of the >>low<< and >>high<< switch. The display of the transmitter signal is optical and acoustical. Typical applications are e.g. locating line interruptions in cables, locating lines in walls, locating short-circuits in lines, locating bottlenecks (obstructions) in installation pipes, tracing installed water and heating pipes, sorting of up to 16 lines (several transmitters required). The working range depends on the surrounding medium (water, earth, humid walls, or other shieldings) and varies between 0cm to approx. 40cm, depending on type of application.

Power supply:
2 x 9V batteries 6LR61
Weight:
including carrying case approx. 1800g
Dimensions carrying case:
38 x 30.5 x 9cm T.No.: FT5000 2032E

In Carrying Case:
Individual instrument:
Transmitter 2031 E
Line code 0 ... 9 / A ... F
(please indicate) T.No.: FT50000 2031 E
Individual instrument:
Receiver 2030 E
T.-No.: FT5000 2030 E

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Rd400SL Buried pipe and cable locator



AK00029

A simple easy-to-use locator for utility distribution technicians, contractors and anyone needing to know the position and depth of buried pipes and cables. The locator locates and identifies target lines and locates other nearby pipes and cables that need to be avoided when digging.

Radiodetection's design introduces important new features:

- Accurate and easy pinpointing with enhanced meter response.
- Improved signal filtering banishes unwanted interference.
- Automatic depth measurement. Automatic function and calibration verification.
- Super sensitive power locate mode. (Exceeds NJUG guidelines).
- Ergonomic shape for day long use.
- Simple to use. Only three controls on the receiver transmitter combination.
- Locator versatility provides accurate locate in complex situations.
- Choice of signal frequencies: the locator is available with 8kHz or 33kHz locate mode.

Plus Radiodetection's proved and classic features:

- 3 location modes: Power and Power + for locating buried power cables and other nearby lines. Radio for locating lines not radiating a power signal. Transmitter for tracing, identifying and pinpointing.
- Twin aerial antenna for super sharp response and directionally.
- Rugged weatherproof construction (IP54) for everyday site use in all climates.
- Very comprehensive instruction manual suitable for the novice and the experienced user.

Optional accessory equipment:

- Receiver meter illumination for night work.
- Receiver accessory module for clamp and stethoscope antennas for cable identification.
- High power 3W transmitter for long distance tracing.
- Wide range of accessories for applying the transmitter signal to pipes and cables.
- Large selection of transmitting sondes enable the receiver to trace drains, ducts and non metallic pipes.

Comprehensive information available:

- RD400SL Locator technical information and specification.
- Accessories for the RD400SL receiver and transmitter.
- Transmitting sondes and accessories for tracing drains.

Model SKR-180P Electronic Auto-Balancing Recorder



SKR-180P-2-10
AK00030

SKR-180P-6-10
AK00031

FEATURES:

1. Direct reading is easy due to the reading scale provided for each parameter.
2. Storage of data is easy since Z fold chart are used.
3. Change of charts or replacement ink is easy because of DIN and revolving locker system.
4. No trouble of blotting of ink etc. due to fibre top pens.
5. Highly reliable recorders excellent in accuracy, stability, and durability.

Specifications:

Model name Catalog No.	SKR-180P-2-10 7982-02	SKR-180P-6-10 7982-06
Input signal	0-10mV DC	0-10mV DC
Recording system	2 pen type (simultaneous record)	Color coded 6 dotting Type (12 dotting type)
Response time	2.5 sec at 50Hz 2.1 sec at 60Hz	2.5 sec at 50Hz 2.1 sec at 60Hz
Dotting interval	-	6 sec at 50Hz 5 sec at 60Hz
Chart Paper	z hold type, 20m	z hold type, 20m
Effective width of chart paper	1st pen 85mm 2nd pen 85mm	180mm
Chart forwarding chart	25-50mm/h	25-50mm/h
Power to forward chart	AC motor	AC motor
Continuous recording period	1 month	1 month
Operating Temperature range	-10 to 50°C	-10 to 50°C
Power requirements	100V or 110V AC ±10% 50/60Hz	100V or 110V AC ±10% 50/60Hz
Power consumption	Approx. 18 V A	Approx. 15 V A
Outer dimensions	288 x 288 x 355mm	288 x 288 x 355mm
Weight	Approx. 16kg	Approx. 15kg

No. 7932-2 Digital Rain Gauge with Alarm

Specifications of Sensor

Type of sensor: Tipping bucket type rainfall sensor
 Output: 1 contact point pulse per 0.5mm of rainfall (non voltage)
 Contact point capacity: Max. working current: 1 ADC
 Max. working voltage: 250 VDC
 Contact point time: More than 0.1 second
 Dia. of rain collection: Ø200mm
 Outline dimensions: Ø200 x 450 (H) mm
 Weight: Approx. 3.5kgs

Specification of Indicator

Measuring range: Digital display: 0 to 1000mm (repeat)
 4 digits, 0.5mm step
 Alarm: Time setting: Digital switch for rainfall time
 2 digits, 1 to 99minutes (selectable)
 Alarm setting: Digital switch for integrated rainfall
 depth, 3 digits, 1 to 999mm (selectable)
 Alarm output: Relay contact output (normal open)
 Contact point capacity: AC 110V, DC24V 3A
 Alarm switch: ON/ OFF switch for alarm
 Buzzer switch: ON/ OFF switch for buzzer
 Reset: Reset the data of digital display by reset switch
 Integration/ Time: Selectable by switch
 Electric contact output: Non-voltage make contact
 Back up power supply: 7 hours by build-in battery
 Combined accuracy: Below 20mm of rainfall: Within ±0.5mm
 Over 20mm of rainfall: Within ±0.3% of indicated value



AK00032

Outer dimensions: 206 (W) x 106 (H) x 305 (D) mm
 Weight: Approx. 4 kg
 Panel cut size: 204 (W) x 104 (H) mm
 Power requirement: AC100V ±10% 50/60Hz (other voltage is available)
 Power consumption: AC100V : Below 200mA
 Operating temperature: -10 to 50°C
 Storing temperature: -20 to 70°C
 Relative humidity: 20 to 90% RH (no-condensing)
 Ambient: Atmosphere of about 1013 hPa including non corrosive gases.

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No. 7820 Event Recorder



AK00033

Specifications

Mechanism:	Solenoid ratchet drive the pen with snail cam. Returns to zero at 100 pulses and rises again
Measuring range:	Pulse counting method (0-100)
Input pulse:	3 V DC 100mA more than 0.1sec
Speed of pen:	Moves by the half of scale per pulse returns to zero point at 100 pulses
Clock rotation:	1-day and 7 days by change gear provided
Effective width of chart:	100mm
Power requirements:	3 V DC 100 mA
Standard accessories:	1 pad of 7 days chart (55 sheets/ pad), Batteries
Dimensions:	300 x 140 x 200 (H) mm
Weight	Approx. 3.7kg

Combined Wind Speed and Direction Sensors

Model: WMS301

- Combined wind speed & direction measurement
- Compact size
- Fast response
- Excellent linearity
- For all climates
- Suitable for low applications
- Designed for use with Wind 20 and 30 displays

Specifications

Model: WMS301

Anemometer Sensor/ Transducer Type:	Dual Reed switch
Measuring range:	0.5 ... 60m/s (160MPH)
Starting Threshold:	<0.4m/s
Distance Constant:	2m
Transducer output:	1Hz -0.7m/s
Accuracy:	(<= 10m/s) ±0.3m/s (0.7 MPH) (> 10m/s) error <2%

Vane

Sensor/ Transducer Type:	Potentiometer
Measuring range:	WMS301 0 ... 355°
Starting Threshold:	<1 m/s
Damping ratio:	0.3
Overshoot ratio:	0.4
Transducer output:	+Vref/360 = 1°
Accuracy:	better than ±3°

Specifications (for Wind 20 and Wind 30)

Type:	Wind 20: Single channel instant wind display Wind 30: Multi-channel average wind display
Operation:	3-state push button for light intensity adjustment, self-test and reset operations Selection of speed unit, speed alarm level, correction of magnetic deviation, etc. are done with a PC terminal program via a serial line
Input/ Output	
Serial I/O:	NMEA compatible opto-isolated RS485 input 2-wire RS485 transceiver
Parallel input:	6-bit GRAY code input from digital wind direction sensor
Frequency input:	Pulse or frequency input from digital wind speed sensor
Analog input:	4-channel, current or voltage for analog sensors/transmitters
Relay coil drive:	120mA max. sink
Reference output	3.5 VDC, 5mA



AK00034

No. 26-SP Cup Type Anemometer with Alarm

SPECIFICATIONS

Transmitting Unit

Type	Pulse type cup anemometer
Wind speed resistance	50m/s
Output	Two-wire system (nonpolar), superimposed on power cable
Cable extension	Max. 1.7Ω (approx. 30km for 0.9mm dia. wire)

Indicator

Measurement range	1 to 40m/s
Accuracy	10m/s or less: Within +0.5m/s Most than 10m/s: Within + 5%
Wind speed display	Can be switched between instantaneous wind speed and average wind speed
Alarm setting 1	Can be set to any value between 1 and 30m/s through the front panel
Alarm setting 2	Internally fixed at user-specified value (option)
Alarm release setting	Internally fixed at user-specified value (option)
Alarm contact rating	250 VAC, 30 VDC, 5A (resistive load)
Alarm contact type	Transfer contact
Alarm buzzer	Built-in
Power source	11 to 35 VDC (option: 100VAC)
Power consumption	Approx. 1W

Accessories

1. Cable (attached to transmitting unit) 20m
2. Indicator bracket (stand) 1 pair
3. 0.5-A mini fuse 3 pcs

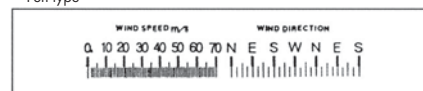
Note: Since the transmitting unit of the anemometer outputs power superimposed signals, the transmitting unit cannot be as a stand-alone.



AK00035

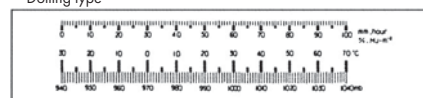
SCALE:

- Pen type



Rainfall, Rainfall intensity, Humidity
Solar radiation, Temperature
Barometric pressure

- Dotting type



Sigma II Thermohygraph



AK00036

Specifications

Cat. No.:	No. 7210-00 (Quartz type) No. 7215-00 (Spring-wound type)
Model:	NSII-Q (Quartz type), NSII-S (Spring wound type)
Clock:	Quartz clock: 1-day, 7-days and 32-days by change over switch Battery: 2 pcs of UM-2 (1.5V) Life of battery: 1 year for continuous use Spring-wound: 1-day and day by change gear
Sensors:	Aged bimetallic strip for temperature Human hair bundle for relative humidity
Measuring range:	-15 to 40°C (option:-10 to 50°C) for temperature 0 to 100% for relative humidity
Accuracy:	±1°C for temperature ±3% for relative humidity
Chart graduation:	1°C for temperature 1% R.H. for relative humidity
Recording pens:	Cartridge pens (violet)

Dimensions:	336 (W) x 148 (D) x 295 (H) mm
Weight:	Approx. 3.1kg (Quartz type)
Accessories:	7-days chart for 1 year use (55 sheets/ pad) Instruction manual, "C" cell x 2 pcs (Applicable to quartz type only)
Accessories Consumables:	No. 7210-60: 1-day chart (400 sheets/ pad) No. 7210-62: 7-day chart (55 sheets/ pad) No. 7210-64: 32-day chart (55 sheets/ pad) No. 7210-90: Spare cartridge pen (Violet) No. 7210-92: Spare cartridge pen (Red) No. 7210-20: Axial AC fan

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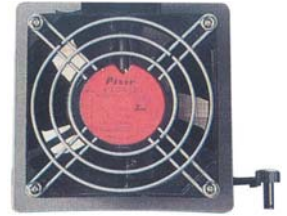
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SCIENTIFIC INSTRUMENT

Temperature/ Humidity

Cat. No.	7210-20
Model	Axial AC Fan
Power requirement	100 to 220 VAC 50/60Hz
Power consumption	70/ 55mA
Revolution of fan	2700/ 3300rpm
Max. airflow	0.73/ 0.94m ³ min
Max. static pressure	3.4/5 mmAq

Use an external fan for faster response and more accurate measurement. It is in combination with this fan that the maximum capability of measurement for temperature and humidity can be achieved. The fan inhales fresh air into the instrument and makes the response of sensor faster, resulting in the detection of accurate data. It is effective, particularly in warehouses which are excluded from the open air, laboratories where ventilation is poor or air tight small space.



AK00037

RIDGID Inspection Cameras

The RIDGID® Inspection camera range is the latest addition in the product portfolio that helps Build Your Reputation.

Developed with tried and tested technology these cameras deliver an impressive performance allowing the professional to detect and diagnose the unreachable.

The units help in your daily tasks to find what lies beneath, behind and in-between. In short it does more in less time. It is easy to carry and operate and the unit should be part of every professional's tool box.

AK00039



SeeSnake® micro™

SPECIFICATIONS

Display:	2.5" Colour LCD (160 x 234 resolution)
Attachments:	Mirror, hook and magnet
Camera size:	9.5mm or 17mm diameter
Lighting:	2 adjustable LED's
Weight:	0.5kg
Power source:	4 AA batteries
Waterproof:	Camera and cable to 3 metres depth (when properly assembled)
Cable reach:	extensions 90cm or 180cm (extendable up to 9meter)
Standard equipment	
(Cat n°25643) includes:	Tool with 90cm cable and 17mm imager head 4 AA batteries Carrying case Three attachments - Mirror, hook and magnet

AK00040



microEXPLORER™

SPECIFICATIONS

Display:	3.5" Colour LCD (160 x 234 resolution)
Attachments:	Mirror, hook and magnet
Camera size:	9.5mm or 17mm diameter
Lighting:	4 adjustable LED's
Weight:	0.8kg
Power source:	4 AA batteries
Waterproof:	Camera and cable to 3 metres depth (when properly assembled)
Cable reach:	extensions 90cm or 180cm (extendable up to 9meter)
Standard equipment	
(Cat n°30063) includes:	Tool with 90cm cable and 17mm imager head UP-IS-UP Li-Ion battery & charger; USB cable Carrying case Three attachments - Mirror, hook and magnet

Remote-Sensing Dial Thermometer

SB-100S AK00046
SB-150S AK00047



Model: SB-100S / SB-150S Dial Thermometer (Mall Mounted Black Connection)

SPECIFICATIONS:

Case:	SUS 304 High Polished
Window:	Glass
Dial:	White background with black markings
Capillary:	SUS 304 armour over copper capillary
Bulb:	SUS 304
Case diameter:	110mm (100mm) & 154mm (150mm)
Temp. range:	-40 + 50°C/F 0 + 120°C/F 0 + 160°C/F 0 + 200°C/F 0 + 300°C/F 0 + 400°C/F 0 + 650°C/F

Order specifications required:

- A. Case diameter
- B. Range
- C. Capillary Length
- D. Stem Length & Stem Diameter
- E. Connections size
- * Special size available upon requests.

PN-100S AK00048
PN-150S AK00049



Model: PN-100S / PN-150S Dial Thermometer (Mall Mounted Black Connection)

SPECIFICATIONS:

Case:	SUS 304 High Polished
Window:	Glass
Dial:	White background with black markings
Capillary:	SUS 304 armour over copper capillary
Bulb:	SUS 304
Case diameter:	110mm (100mm) & 175mm (170mm)
Temp. range:	-40 + 50°C/F 0 + 120°C/F 0 + 160°C/F 0 + 200°C/F 0 + 300°C/F 0 + 400°C/F 0 + 650°C/F

Order specifications required:

- A. Case diameter
- B. Range
- C. Capillary Length
- D. Stem Length & Stem Diameter
- E. Connections size
- * Special size available upon requests.

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