

**ST83982**  
Digital sound level meter



- Auto ranging
- Fast & slow response
- Record Max. / Min.
- Max. hold function
- Background noise absorber
- Applicable standards : IEC651 type 2  
ANSI S1.4 type 2
- Analog output : AC 1 Vrms  
DC 10mV/dB
- Meas. Freq. range : 31.5Hz-8000Hz
- Accuracy : ±1.5dB
- Meas. level A weighting : 30dB - 130dB  
C weighting : 35dB - 130dB
- Measurement level range :  
3 ranges in 10dB step :  
30 ~ 80dB, 50 ~ 100dB, 80 ~ 130dB
- Auto range : 30 ~ 130dB
- Operation Temp. : 5 ~ 40°C, below 80%RH
- Storage Temp. : -10 ~ 60°C
- Big LCD : 3 1/2"
- Mic. : 1/2" Dia. Elect. condenser  
microphone
- Dim. : 280 x 80 x 32 mm
- Standard accessories :  
instruction, 9V battery, carrying case,  
Ø3.5mm plug, screwdriver

**ST839825**  
Carbon monoxide



- Range: 0 to 1000PPM (2000PPM with 5 minute max exposure time.)
- Sensor calibration: Factory calibrated on 205ppm
- Sensor type: Electrochemical (specific to CM)
- Initial accuracy: ±5% of reading ±5PPM
- Response time: <70 sec. to 90% of reading
- Operation Temp.: 32°F to 105°F
- Operation R.H. : 15 to 90%RH, non-condensing
- Long term drift: <5% / year (depending on use)
- Battery life: 200 hours typical
- No measurable current draw when in "off" position.
- Polarity: Automatic, positive implied, negative polarity indication
- Zero: Automatic
- Storage Temp.: -20°C to 60°C, 0 to 80% R.H.
- Accuracy: Stated accuracy at 23°C±5°C, <75% R.H.
- Low battery indicator
- Dim.: 189 x 67 x 35 mm

**ST83983**  
Differential manometer



Ranges	Resolution	Accuracy
0-1019.7 mmH <sub>2</sub> O	0.1	<3.1±0.3 rest±0.5 >10.2±1.02
0-75 mmHg	0.01	<0.03±0.02 rest±0.04 >0.75±0.08
0-1.45 psi	0.001	<0.0141±0.01 rest±0.02
0-40.14 inH <sub>2</sub> O	0.01	<0.12±0.01 rest±0.02 >0.4±0.04
0-2.953 inHg	0.001	<0.031±0.01 rest±0.03
0-100 hPa	0.01	<0.31±0.03 rest±0.05 >1±0.1
0-100 mbar	0.01	<0.31±0.03 rest±0.05 >1±0.1
0-10000 Pa	1	<31±3 rest±5 >100±10

\* fpm / \* m/s 1 / 0.1  
(\* changed by different density)

- Measurement rate : 2 times/Sec.
- Dual input P1 - P2
- Auto power off to preserve battery life
- Max. / Min. / AVG. and Hold function
- Operation Temp. : 0 ~ 50°C, below 70%RH
- Storage Temp. : -20 ~ 60°C, 0 to 80%RH
- Low battery indicator
- Dim. : 132.9 x 50.9 x 24.7 mm
- W / protective cap and carrying strap

**ST83984**  
Hygro-moisture meter



Ranges	Resolution	Accuracy
-20 to 60°C	0.1	±0.5(0-45°C) ±1(rest range) ±1(32-113°F)
-4 to 140°F	0.1	±2(other range)
0 - 100% RH	0.1	±2.5% 10-90%RH ±5% rest range

- Moisture material:  
8.8 to 54.8%: For beech, spruce, larch, birch cherry and walnut (grouped as wood 1)  
7.0 to 47.9%: For oak, pine, maple, ash-tree, Douglas-fir and meranti (grouped as wood 2)  
0.9 to 22.1%: For cement screed, concrete and plaster (grouped as mortar 3)  
0.0 to 11.0%: For anhydrite screed (grouped as mortar 4)  
0.7 to 8.6%: For cement mortar (grouped as mortar 5)  
0.6 to 9.9%: For lime mortar (Grouped as mortar 6)  
0.1 to 16.5%: For brick (Grouped as mortar 7)
- Accuracy: ±1% at 23±5°C (73.4±9°F)
- Resolution: 0.1%
- Measure % moisture of wood & building materials
- Settable measuring ranges for different materials
- Max. / Min. / AVG. and hold functions
- Auto-power off function
- Storage Temp.: -20°C to 60°C, 0 to 80% R.H.
- Low battery indicator
- Dim.: 132.9 x 50.9 x 24.7 mm

**ST83985**  
Hygro-anemometer



Ranges	Resolution	Accuracy
80-4000 ft/Min.	1	±40 ft/Min.
0.4-20 m/Sec.	0.1	±0.2 m/Sec.
Temp.		
-20 to 60°C	0.1	±0.5(0-45°C) ±1(rest range) ±1(32-113°F)
-4 to 140°F	0.1	±2(other range)
0 - 100% RH	0.1	±2.5% 25°C 10-90%RH ±5% 25°C rest range

- Measurement rate : 1 time/Sec.
- Built-in accurate NTC temperature
- Max. / Min. / AVG. and hold function
- %RH humidity measuring, dew point and wet bulb
- Operation Temp. : -20 ~ 60°C (32 ~ 122°F) below 70%RH
- Storage Temp. : -20 ~ 60°C (-4 ~ 140°F), 0 to 80%RH
- Auto power off to preserve battery life
- Low battery indicator
- Dia. of fan : 29 mm
- Dim. : 132.9 x 50.9 x 24.7 mm
- W / protective cap and carrying strap

**ST83986**  
Stick-type thermo anemometer



Units	Resolution	Threshold	Range
m/s	0.01	0.3	0.0-30.0
ft/min	1	60	0.0-5900
knots	0.1	0.6	0.0-58.0
mph	0.1	0.7	0.0-67.0
Km/h	0.1	1.1	0.0-108.0

Accuracy: ±3%FS

Temp. Ranges	Resolution	Accuracy
-20 to 60°C	0.1	±0.5(0-45°C) ±1(rest range) ±1(32-113°F)
-4 to 140°F	0.1	±2(other range)

- Polarity: Automatic, positive implied, negative polarity indication
- Zero: Automatic
- Operating environment: 0°C to 50°C at <75%R.H.
- Storage temperature: -20°C to 60°C, 0 to 80% R.H.
- Accuracy: Stated accuracy at 23°C±5°C, <75% R.H.
- Dim.: 228 x 65.5 x 35 mm

**ST839862**  
High concentration salinity meter



- | Ranges      | Resolution | Accuracy                        |
|-------------|------------|---------------------------------|
| -20 to 60°C | 0.1        | ±0.5(0-45°C)<br>±1(rest range)  |
| -4 to 140°F | 0.1        | ±1(32-113°F)<br>±2(other range) |
- Relative salinity range: 0.1% to 10%
  - Temperature compensation: -5°C to 60°C, automatic
  - Accuracy:
    - 0% to 0.9% (± 0.1)
    - 1.0% to 1.9% (± 0.2)
    - 2.0% to 2.9% (± 0.3)
    - 3.0% to 4.9% (± 0.5)
    - 5.0% to 5.9% (± 0.7)
    - 6.0% to 7.9% (± 1.0)
    - 8.0% to 10.0% (±1.5, depend on the way of measuring)
  - Operation environment: 0°C to 50°C at<70% R.H.
  - Storage Temp.: -20°C to 60°C, 0 to 80% R.H.
  - Accuracy: Stated accuracy at 23°C ±5°C, <75% R.H.
  - Low battery indicator
  - Dim.: 178 x 65.5 x 35mm

**ST839864**  
Micro processor base pH/mV/temperature meter



- | Ranges            | Resolution | Accuracy           |
|-------------------|------------|--------------------|
| 0 to 80°C         | 0.1        | ±1                 |
| 32 to 176°F       | 0.1        | ±2                 |
| 0.00 to 14.00 pH  | 0.01       | ±3dgts             |
| -1000mV to 1000mV | 0.1/1      | ±(0.5%rdg + 2dgts) |
- Data storage: 128 measured data
  - Temperature compensation: Auto (0°C to 80°C), manual (0°C to 100°C) user selectable
  - Dual display pH(mV) & temperature pH (pH4, pH7, pH10) and Temp. (25°C and 70°C) calibration for highly accuracy
  - Max. / Min. / Max.-Min. / AVG / hold functions
  - RS232 interface with windows software
  - Suitable for ion selective with "mV" range
  - Operation environment: 0°C to 50°C at<70% R.H.
  - Storage Temp.: -20°C to 60°C, 0 to 80% R.H.
  - Accuracy: Stated accuracy at 23°C ±5°C, <75% R.H.
  - Low battery indicator
  - Dim.: 165 x 65 x 35 mm

**ST839866**  
Uvavimeter



- Range: 199.9 μW/cm<sup>2</sup>  
1.999 mW/cm<sup>2</sup>  
19.99 mW/cm<sup>2</sup>
- Accuracy: ±(4% FS ±2 dgts), (FS: full scale)
- UV sensor spectrum: Band pass 320 to 400nm
- Polarity: Automatic, positive implied
- Auto power off function
- Portability and simplicity one hand operation
- Max. / data hold function
- Ultra-violet irradiance measurement for UVA
- UV detector spectrum from 320nm to 400nm
- Operation environment: 0°C to 50°C at<70% R.H.
- Storage Temp.: -20°C to 60°C, 0 to 80% R.H.
- Accuracy: Stated accuracy at 23°C ±5°C, <75% R.H.
- Battery: 1.5V x 3 pcs AAA size.
- Low battery indicator
- Dim.: 155 x 48 x 24mm

**ST83987**  
Hygro-thermometer



- | Ranges      | Resolution | Accuracy                                   |
|-------------|------------|--|
| 0 to 60°C   | 0.1        | ±0.5(10-45°C)<br>±2(rest range)            |
| 32 to 140°F | 0.1        | ±1(50-113°F)<br>±4(rest range)             |
| 0-100% RH   | 0.1        | ±2.5% 25°C 10-90%RH<br>±5% 25°C rest range |
- Measurement rate : 1 time/Sec.
  - Sensor : thermistor temperature and capacitive humidity
  - Polarity : automatic, positive implied, negative polarity indication
  - Zero : automatic
  - Two in one wide range thermometer and humidity function
  - %RH, dew point and wet / dry bulb
  - Easy switching between K / NTC / K-DP
  - Max. / Min. / AVG. / REL. and hold function
  - Auto power off to preserve battery life
  - Operation Temp. : 0 ~ 50°C below 75%RH
  - Storage Temp. : -20 ~ 60°C, 0 to 80%RH
  - Response time : 60 Sec. typical
  - Low battery indicator
  - Dim. : 160 x 83 x 38 mm

**ST83989**  
EMF(electromagnetic field) tester



- Range : 0.1-200mG (milli gauss)  
1- 2000mG (milli gauss)  
0.01-20μT (micro tesla)  
0.1-200μT (micro tesla)
- Accuracy : ±3% at 50Hz / 60Hz
- Frequency response : 30Hz-400Hz
- Measurement rate : 2.5 times/Sec.
- Quick response & reliable measurement of electromagnetic field levels
- Max. (Peak) and data hold function
- Operation Temp. : 0 ~ 50°C (32 ~ 122°F) below 80%RH
- Storage Temp. : 10 ~ 60°C (14 ~ 140°F) below 70%RH
- Over range indicator ("OL" display on LCD)
- Monitor & find low-level ELF (extremely low frequency) radiation generated by specific objects or devices in units of milli gauss (mG)
- Apply to power lines, computer monitors, TV sets, video / audio machines, microwave stoves, mobile phones or similar devices at work
- Dim. : 135 x 55 x 35 mm

**ST83991**  
Light meter



- Ranges : 20 / 200 / 2000 / 20000 / 200000lux  
20 / 200 / 2000 / 20000fc
- Resolution : 0.01lux, 0.001fc
- Accuracy : ±3%
- Measurement rate : 1 time/Sec.
- Measurement of light intensity
- Spectral angle : f'1<8%
- Acceptance angle : f'2<2% cosine corrected(150°)
- Auto range and manual range
- Max. / Min. / AVG. / Hold / Peak / Save / Recall function
- Data storage 128 measured data
- Operation Temp. : 0 ~ 50°C below 70%RH
- Storage Temp. : -20 ~ 50°C, 0 to 80%RH
- Auto power off to preserve battery life
- Low battery indicator
- Dim. : 170 x 44 x 40 mm