

TES-1160

Thermo Hygro Barometic Air Pressure Meter

Features

- Comparator function
- · Alarm output function
- Auto power off function
- Read lock function

- Manual data memory and read function
 Automatic Data Logging Function (1161)
 USB interface (1161)
 3 groups of LCD display temperature, relative humidity, and atmospheric pressure
 Dew point and wet bulb temperature calculation value reading
 Absolute humidity, mixing ratio, and enthalpy calculation value reading
 Pead the calculated value of water vapor pressure and activisted water vapor pressure

- Read the calculated value of water vapor pressure and saturated water vapor pressure
 Atmospheric pressure trend (P3h) calculated value reading
 Read heat index (Heat Index) and humidity index (Humidex) calculated value

- Maximum value, minimum value with stamp of occurrence time

Measurement Gear	Relative humidity 0% ~ 100%R.H. Temperature -40°C~ +100°C (-40°F to +212°F)
Atmospheric pressure	300 ~ 1200hPa
Resolution	0.1% R.H., 0.1°C, 0.1°F, 0.1hPa
Accuracy	Temperature: ±0.4°C (+5°C~+60°C) ±0.8°C (-20°C~5°C and +60°C~+80°C) ±1.2°C (-40°C~-20°C and +80°C~+100°C) ±0.8°F(+41°F~+140°F) ±1.6°F(-4°F~ 41°F and +140°F~+176°F) ±2.4°F(-40°F~-4°F and +176°F~+212°F)
Relative humidity	±3%RH (25°C, 20 ~ 80% RH) ±4%RH (25°C, 10 ~ 20% RH and 80 ~ 90% RH) ±5%RH (25°C, 0 ~ 10% RH and 90 ~ 100% RH)
Atmospheric pressure	±2hPa (25°C), ±4hPa (-20 ~ 85°C)
Reaction time	Relative humidity: t63% < 10s (33 ~ 75% RH) Temperature: t63% < 10s (15°C ~ 45°C)
Sampling rate	1 time per second
Manual data memory capacity	99 groups (can be read directly on LCD)
Automatic Data Recording Capacity	microSD CARD 4GB (1161)
Alarm output	Open collector output, input impedance: 490Ω
Maximum Applied Voltage	24V DC
Maximum drive current	50mA DC
Operating temperature and humidity	0°C~60°C, less than 95% R.H.
Storage temperature and humidity	-10°C~ 60°C, less than 70% R.H.
Power supply	006P 9V or IEC6F22, NEDA 1604 battery
Battery Life	About 2 months
Size	249 x 64 x 26mm
Weight	About 178g
Appendix	Manual, battery, leather case, CD-ROM software (1161), Micro-USB cable (1161).
Optional accessories	AC Converter DC9V (1161)



DTM-800Digital Thermometer

The Tepcel® DTM-800 is a portable digital thermometer that is constructed in a handheld lightweight framework. This device can deliver optimum accuracy in every operation through its various functions. These functions include MAX / DATA HOLD, automatic power off, as well as °C and °F data units. In addition, it is in strict compliance to CE certification.

DTM-800 uses K-type thermocouple probes with pocket-size easily to carry out. Easily to have self recalibration adjust for zero and 100 deg C calibration by ice water and boiling water.



Measuring Range	-100~850°C (-148~1,562°F)
Accuracy	±(0.3% + 1°C)
Resolution	0.1°C / 1°C(When over 200°C)
Auto Shut Off	30 minutes
Type of Thermocouple	К-Туре
Reacting time	According to the sensor
Working Environment	0~50°C / lower than 90%RH without dew
Storage Environment	-10~40°C / lower than 70%RH without dew
Elevation Limitation	Lower than 1,000 meters
Power Supply	1.5V Battery (AAA) x 3
Dimension	148 x 48 x 24 mm
Weight	73.4 g
Accessory	TPK-01*1, Battery, Manual.



TR-71nw, TR-72nw, TR-72nw-S

T&D Wired LAN Temperature and Humidity Data Logger



A new LAN-based data logger for cloud storage. In addition to the existing wireless LAN model TR-71wf/72wf, we added the wired-LAN model with the same basic features to offer a choice of network connection methods.

By using T&D WebStorage Service*1, a cloud service provided by T&D free of charge, it is possible to access stored data from your PC and mobile devices anytime from anywhere. Simply connect the data logger to the Internet with a LAN cable, and it automatically*2 starts uploading recorded data to T&D WebStorage Service, thus providing a remote access solution without the need for manual intervention.

- 1: Internet access via LAN is required to access T&D WebStorage Service.
- 2: In the LAN environment where DHCP can be used.

Features

- Automatic Upload of Recorded Data to T&D WebStorage Service via Wired LAN
- Temp/Humidity Alarm Mail Transmission from T&D WebStorage Service
- Direct Data Download via USB
- Temperature and Humidity Measurement in a Wider Range with Greater Accuracy (TR-72nw-H)
- Battery Operation for up to 1.5 years with one AA Alkaline Battery
- Automatic Upload of Recorded Data to PC

	TR-71nw	TR-72nw	TR-72nw-H
Supplied Sensors	TR-0106 (2ch)	THA-3001	HHA-3151
Temperature Measurement Range (°C)	-40 to 110	0 to 55	-30 to 80
Humidity Measurement Range (%)	-	10 to 95	0 to 99
Temperature Measurement Accuracy	±0.3°C [-20 to 80°C] ±0.5°C [at all other temperatures]	±0.5°C	±0.3°C [0 to 50°C] ±0.5°C [at all other temperatures]
Humidity Measurement Accuracy	-	±5%RH (at 25°C, 50%RH)	±2.5%RH (at 25°C, 10 to 85%RH)



TR-51i TR-52i T&D Thermo Recorder





The compact design allows the user to place a TR-5i Data Logger almost anywhere without worrying about space. Also, its durable body with waterproof and dustproof capacity makes it possible to be used in harsh environments.

Measurement Item	Temperature	Temperature
Measurement Channels	1 Ch (Internal Sensor Type)	1 Ch (External Sensor type)
Measurement Range	-40 to 80°C	60 to 155°C
Response Time (in 90% still air)	About 35 min.	
Measurement Accuracy	Avg. ±0.5°C	Avg. ±0.3°C: -20 to 80°C Avg.±0.5°C: -40 to -20°C/ 80 to 110°C Avg. ±1.0°C: -60 to -40°C/ 110 to 155°C
Measurement Display Resolution	0.1°C	
Logging Capacity	16,000 Readings	
Recording Start Method	Immediate / Programmed	
Recording Mordes	Endless / One Time	
Recording Interval	Select from 1,2,5,10,15,20 and 30 sec. / 1,2,5,10,15,20,30 and 60 min.	
LCD Displayed Items	Measured Temperature, Recording Status, Recording Mode, Infrared Communication Status, Battery Life Warning, Unit of Measurement, Full(Storage Capacity FULL), Unconnected Sensor, Measurement Range Exceeded, Upper/Lower Limit Exceeded	
Communication Interfaces	Optical Communication / Infrared Communication	
Infrared Communication	IrPHY 1.2 low power	
Communication Time	When downloading 1 Unit at full logging capacity: Optical Communication: About 24 sec. (TR-57DCI), About 20 sec. (TR-50U), About 160 sec. (TR-57U), Infrared Communication: About 55 sec. (TR-57DCI)	
Power (*1)	Lithium battery LS14250 x 1 (Lithium battery CR2 also okay)	
Battery Life (*2)	Maximum 4 years (2 years if it's been selected to "Permit" infrared communication)	
Waterproof Capacity	IP67 (Immersion proof)	IP64 (Splash resistant)
External Dimensions	H62mm x W47mm x D19mm (Excluding protrusions and External Sensor)	
Weight	About. 54g including battery	About. 55g including battery/ excluding sensor
Operating Environment	-40 to 80°C When using Lithium Batteries (CR2) sold in stores: -20 to 60°C	
Data Collection Devices	Communication Port: TR-50U Data Collectors: TR-57DCi, TR-57U, RTR-57U	





TR-31, TR-32

Temperature Logger TR-31 / Temperature Humidity Logger TR-32

TR-31/32 series has USB interface, featuring elegant appearance and compact construction design for 9Nefrigerator, cold-chain transportation, and container transportation monitoring applications. TR-31/32 adopts user-friendly USB interface, easy-to-mount brackets with screws. The OK key can help the user check the Max/Min/Current values and the upper and lower limits.

Application Examples

- · Cool and frozen transportation and storage
- · Frozen transportation and storage
- Monitoring temperature during food transportation
- Performance testing of air conditioning equipment
- Recording temperature of instrumentation and machinery

TR-31 Specifications

	(17)
Temperature Measurement	-30 to 70 ° C
Measurement Accuracy	+/- 0.5 ° C
Average	+/- 0.5 ° C (-20 to 70 ° C)
Measurement Resolution Display	0.1 ° C
Sensor Thermistor	

TR-32 Specifications

Measurement: Temperature Humidity	Temperature: -30 to 70 °C Humidity: 0 to 100 %RH
Measurement Accuracy	(Standard Sensor) Average +/-0.5° C(-20 to 70 ° C) Average +/- 0.5 °C ; +/- 5%RH (At 25 ° C 50%RH)
Measurement Resolution Display	0.1° C , 1%RH (TR-32)
Sensor Thermistor Macromolecular	
High Sensitve Humidity Sensor	



TR-71wb, TR-72wb, TR-72wb-S

Temperature and Humidity Data Logger Wireless WiFi TandD





The most distinguishing feature of TR-71wb/72wb is its auto upload function which automatically uploads recorded data from the logger to our free cloud service. It enables the viewing of uploaded data on your mobile device or PC anytime, anywhere. Try our new data loggers and take a step into the new world of cloud storage

Application Examples

- Performance Testing of Humidity and Heat Control in Housing
- For Managing Temperature and Humidity in Server Rooms
- For Temperature and Humidity Management in Hospitals, Museums, and Temperature Controlled Warehouses
- Management of Temperature and Humidity in Subway and Train Cars

Measurement Specification

Measuring Range: -20~70 ±0.3 °C [Sensor:SHA-3151]

Humidity Range : 10~95 %RH ±2.5 %RH [Sensor:SHA-3151]

Temperature Unit: °C/°F

Humidity Unit : %RH (Relative Humidity)

Accuracy : ±0.3 °C / ±5 %RH Resolution : 0.1 °C / 1 %RH

Features

Temperature Unit Selectable: °c / °f Data Transmission: Network / Usb

Low Battery Indicator Memory Usage Indicator

Data Logging: 8,000 Recording Mode: Onetime / Endless

Recording Interval Setup:

1 Sec. ~ 60 Minutes(15 Choices)

Uploading Interval Setup:

1 Minute ~ 24hours (15 Choices) Capable Of Changing Different Probes Cloud Service : Tandd Web Storage

Alarm: E-mail

Working Environment: 0~50°c / Lower Than 90%rh

Without Dewo

Storage Environment : -10~40°c / Lower Than 70%rh

Without Dew。

Elevation Limitation : Lower Than 1,000 Meters
Wireless Specification : leee 802.11b/g/n (2.4ghz Only)
Bluetooth : Bluetooth 4.2 (Bluetooth Low Energy)

Dimension : 58mm × 78mm × 26mm

Weight : Approx. 55 G (Without Battery)
Accessory : Aa Battery X2 sha-3151 usb Line

(Mini-b Cable Us-15c), manual



TR-73U

Temperature humidity and barometric pressure data logger

These handy Thermo Recorders measure and record temperature and humidity. The recorded data is then downloaded to your computer via our exclusive software whereby colorful graphs and tables can be easily created.

By making use of two alkaline batteries this low energy using compact lightweight unit can be left alone to record continuously over long periods of time. And with our exclusive circuitry we have created a model that brings you the accuracy of more expensive models at a price you can afford.

Measurement Channels	Temperature 1ch	Humidity 1ch	Barometric Pressure 1ch	
Sensor	TR-3100 (External)	Polymer Resistance	Barometric Pressure Sensor (Internal)	
Measurement Units	°C, °F	%RH	hPa	
Accuracy	Avg. ± 0.3°C at 0 to 50°C	±5 %RH at 25 °C, 50 %RH	±1.5 hPa	
Measurement Resolution	0.1°C	1 %RH	0.1 hPa	
Responsiveness	Response Time (90%): Approx. 7 min.	4 seconds or 40 seconds if recording interval is 10 sec. or more	
Logging Capacity	8,000 data sets (One data set consists of a	readings for all channels in t	hat type of unit.)	
Recording Interval	Select from 15 choices: 1, or 1, 2, 5, 10, 15, 20, 30, 6	Select from 15 choices: 1, 2, 5, 10, 15, 20, 30 sec. or 1, 2, 5, 10, 15, 20, 30, 60 min.		
Recording Mode	Endless (Overwrite oldest data when capacity is full) or One Time (Stop recording when capacity is full)			
LCD Display Items	Measurements (fixed or alternating display), Battery Warning Mark, etc			
Communication Interfaces	USB Communication Serial Communication RS-232C			
Power	AA Alkaline Battery x 1			
Battery Life	Approx. 10 months			
Dimensions	H 55 mm x W 78 mm x D 18 mm			
Weight	Approx. 40 g			
Operating Environment	Temperature: -10 to 60°C Humidity: 90%RH or less (no condensation)			
Accessories	AA Alkaline Battery LR6, USB Mini-B Cable US-15C, Temperature-Humidity Sensor TR-3100 x 1, Software CD-ROM, User's Manual Set (Warranty Included)			



TR-74Ui-S

TR-74Ui-S T&D Accumulating Light, Humidity and Temperature Data Logger

The TR-74Ui Illuminance UV Recorder is a data logger designed to simultaneously measure and record four items: Illuminance, Ultraviolet Light (UV),



Temperature and Humidity. In addition to these, the TR-74Ui is also capable of displaying Cumulative Illuminance and Cumulative Amount of Ultraviolet Light in the LCD display. From dim moonlight to the summer sun, Illuminance can be measured within a wide range. The product is an all-in-one package that includes the data logger unit, sensors and software. We offer two types of packages with different temperature/humidity sensors depending on your required measurement range and accuracy needs. Simply by connecting to a PC via a USB connection and carrying out a few easy steps, the measurement and recording of data can be started. Not only can recorded data be easily downloaded to a PC via USB communication, but it can also be collected from data loggers via infrared communication to our T&D Data Collector TR-57DCi (sold separately). The TR-57DCi enables the user to gather and check recorded data on the spot without having to manually gather the data loggers.

Application Examples

- In art museums and other exhibit forums to manage illuminosity and help prevent deterioration of exhibits
- Management during all aspects of plant and food production
- · For use in the development, testing, manufacture and sales of products for cutting UV rays
- UV reduction management in schools from kindergartens to universities
- For home and office use in the management or illuminosity and UV rays
- Design and management of homes and architectural buildings
- · For managing the reduction of UV rays at swimming pools, the ocean, mountains and in parks
- · For management and adjustment of illuminosity for photography and film
- · For management in the production, storage and sales of foodstuffs and beverages
- · For use at supermarkets, convenience stores and drugstores in UV product sales promotion materials

Features

- Measure and Record Illuminance, Ultraviolet Light (UV), Temperature and Humidity
- · Temperature/Humidity Sensor Selection
- View Cumulative Illuminance and Cumulative Amount of Ultraviolet Light in LCD Display
- · Measure Illuminance within Wide Range
- View and record Illuminance in Resolutions to 0.01 lx
- · Simultaneously View Four Measurement in One Easy-to-Read Graph
- · Large Logging Capacity: 8,000 Data Sets
- Transmit Recorded Data to PC via USB Connection



TR-76Ui

T&D CO2 Temperature, humidity and CO2 data logger with built-in sensors



Temperature, humidity and CO2 data logger with built-in sensors
The ""CO2 Recorder TR-76Ui"" is a three-channel data logger designed to simultaneously measure and record CO2 concentration, temperature and humidity. Making atmospheric pressure settings for the measurement location ensures more stable and accurate CO2 measurements. The supplied software enables the user to download data recorded by TR-76Ui to PC via USB connection, whereby data from all three channels can be simultaneously viewed in graph or table form.

The product is an all-in-one package that includes the data logger unit, sensors and software. We offer two types of packages with different temperature/humidity sensors depending on your required measurement ange and accuracy needs.

By using a Data Collector TR-57DCi (sold separately), it will be possible to collect recorded data from the TR-76Ui via infrared communication and immediately check the collected data on the spot. TR-76Ui support on the TR-57DCi is planned for release at the end of February 2012.

This versatile data logger can be used in a wide range of applications from personal to business use; for measurements of home environment, CO2 measurements in offices and other buildings, and/or energy-saving measures such as ventilation and air conditioning controls.

Application Examples

- · Managing CO2, temperature and humidity in schools: from kindergartens to universities
- · For home and office use in the management of CO2 concentration, temperature and humidity
- · For energy-saving measures such as ventilation and air conditioning controls
- For research studies on photosynthesis and plant growth
- · To use in estimations of ventilation

Standard Kit

- TR-76Ui
- Manuals
- AAA Alkaline Battery x 4
- AC Adaptor (AD-0638) or
- AC Adaptor (AD-0638-C)
- USB Communication Cable (US-15C)
- Software
- CD-ROM
- Temperature/Humidity Sensor (THA-3001/HHA-3151)



TRH-3308A

Temperature Humidity meter LED Monitor with Data logger



- · Complete environmental monitoring and alarm solution
- Wall-Mounted LED type for easy reading
- · Alarm set for CO2 (TRH-3358A) and Temperature and Humidity
- USB Datalogging Capacity 65,000 records
- Real-time data display

Applications

- Warehouses Hospitals blood/Tissue banks.
- · Laboratories Computer rooms.
- Chambers/incubator Clean rooms.
- Electronics manufacturing Defense.
- Refrigerators/Freezers Other Critical areas.

Sampling time	1 time/second
Interval time	1s~24hrs
Output interface	RS485/RS-232/USB With a time of three options
Analog output	4-20mA Output (RL<=250Ω)
Dry contact (Relay Switch)	Contact:Max. 1A@30Vdc Resistive load
Power	24Vac/Vdc±20%(5060Hz)and 9-15V Adaptor
Power consumption	6W@24Vdc
Туре	Diode
Range	-20°C~70°C/-4°F~158°F
Accuracy	±1.0°C (5~60°C)other±2°C
Resolution	0.1°C/0.1°F (0~35°C/32°F~95°F); 1°C/1°F (over 100°C/°F or below-10°C/°F)
Response Time	Typ.1 second
Туре	Capacitive
Range	5-95%
Accuracy	±5.0%RH (20~80%);±8.0%RH (80%)
Resolution	0.1%
Response Time	Typ.4 seconds



DTM-317 DTM-318

Digital Thermometer USB Data Logger

The DTM-317 by Tecpel Co. is a hand-held temperature data logger which comes with an operating temperature of -200°C ~ 1,370°C (-328°F ~ 2,498°F). For data logging capacity, it can log about 16,000 records which can be easily seen through its 4 digit LCD that has a timer display.



Features

DTM-317

- -200°C ~ 1,370°C (-328°F ~ 2,498°F)
- Data Logging capacity 16,000 records.
- · 4 Digit LCD, Triple display.
- Timer display.
- · Recording interval setup.
- Reading hold °C or °F annunciators.
- Single K-type thermocouple input.
- · MAX, MIN. function.
- · Auto Power off.
- Hold, ΔREL functions.
- Automatic low battery indication.
- High resolution 0.1°C, 0.1°F
- RS-232 Computer interface.
- USB cable (optional)
- · Software program for Windows

DTM-318

- -200°C ~ 1,370°C (-328°F ~ 2,498°F)
- Data Logging capacity 16,000 records.
- · 4 Digit LCD, Triple display.
- Timer display button.
- · Recording interval set up.
- Reading hold °C or °F annunciators.
- Dual K-type thermocouple inputs.
- · MAX, MIN. function.
- · Auto Power off.
- · Hold functions.
- Automatic low battery indication.
- · High resolution 0.1°C, 0.1°F
- RS-232 Computer interface.
- USB cable (Optional)
- · Software program for Windows.



DTM-319A

4-channel K. J. E. T. Type Thermocouple Temperature Data Logger thermo recorder

The 4 - Input Digital Thermometer DTM-319A is a battery-powered K, J, E, T Type temperature data logger with sensor already built inside the device. For sure, the product is a compact, which is easy for users to carry it everywhere. Furthermore, it is a practical device without difficult manipulation skills needed; customers can use this data logger in an efficient way. Last but not least, the item can measure temperature from -200°C ~ 1,372°C, which is ideal for all applications, especially in some circumstances requiring precise operation and measurement.



The temperature data logger is equipped with numerous advantages, which also make the device more convenient for users to operate. As we move on to the professional era, our continuing support through high quality standards and services for our customers worldwide will remain. To boost your business, choose TECPEL as your reliable and promising partner.

Features

- Temperature: K: -200° C $\sim 1,370^{\circ}$ C (-328° F $\sim 2,498^{\circ}$ F) MAX, MIN. Fur Isolated input Protection up to 250V AC between two inputs.
- Data Logging capacity 16,000 records for each channel.
- 4 Digit LCD display for every tested point.
- Recording interval set up.
- Reading hold °C or °F annunciators.
- 4-channel thermocouples can be used simultaneously & recorded.

- MAX, MIN. Function
- · Hold functions.
- · Automatic low battery indication.
- High resolution 0.1°C, 0.1°F
- USB Computer interface.
- Software program for Windows.
- Standard Tripod mount connector

General Specifications

- Power Requirement: 1 piece 9V battery
 Dimensions: 7.2" x 2.5"x 1.2" (184 x 64x 30mm)
 Weight: 7.4 oz(210g)
 Accessories: RS-232 cable and software for WINDOWS), Deluxe carrying case, English manual, TPK-01 bead probe x 2 pcs
 • Option Accessory: AC adaptor(DC 9V), Special Type K thermocouples
- Certificate: CE

Measurement Range

-200°C ~ 1,370°C (-328°F ~ 2,498°F) k: -200~ 1370 °C (-328 ~2501°F) J: -150 ~1000 °C (-238 ~1832 °F) E: -150 ~ 750 °C (-238 ~ 1382°F)

T: -180 ~ 400°C (-292~ 752°F)

Temperature Coefficient: 0.01% of reading +0.05 °C per °C (28°C). Temperature scale: °C or °F user-selectable
Resolution: 0.1°C or 0.1°F< 1000 ° (>1000 ° , 1°C)
Sensor: K, J, E, T type Thermocouple probe

Sampling rate: 3 seconds per testing circle

Input Protection: 60V DC or 24V rms AC Maximum

Data Logger Accuracy

±(0.1% reading +0.7 °C); ±(0.1% reading +1.4 °F) Below -100°C (-148°F) ±(0.4% reading + 0.7 °C (1.4 °F)

The above accuracy of DTM-319A is specified for ambient temperature between 18°C (64 °F) and 28°C (82°F). The above specifications of DTM-319A do not include thermocouple sensor error.



DTM-319

DTM-319 4-channel Temperature Data Logger thermo recorder



The 4 - channel Digital Thermometer is a battery-powered temperature data logger with sensor already built inside the device. For sure, the product is a compact, which is easy for users to carry it everywhere. Furthermore, it is a practical device without difficult manipulation skills needed; customers can use this data logger in an efficient way. Last but not least, the item can measure temperature from -200°C ~ 1,370°C, which is ideal for all applications, especially in some circumstances requiring precise operation and measurement.

The temperature data logger is equipped with numerous advantages, which also make the device more convenient for users to operate. As we move on to the professional era, our continuing support through high quality standards and services for our customers worldwide will remain. To boost your business, choose TECPEL as your reliable and promising partner.

Features

- Temperature: -200°C ~ 1,370°C (-328°F ~ 2,498°F)
- · Data Logging capacity 16,000 records for each channel. · Hold functions.
- 4 Digit LCD display for every tested point.
- Recording interval set up.
- Reading hold °C or °F annunciators.
- · 4-channel thermocouples can be used simultaneously and recorded.
- MAX, MIN. Function

- · Auto Power off
- · Automatic low battery indication.
- High resolution 0.1°C, 0.1°F
- RS-232 Computer interface.
- Software program for Windows.Standard Tripod mount connector
- Certificate: CE

A temperature logger with four channels, compatible with K type of thermocouples, with 4 K-type thermocouples, and with the software includes downloading the stored information to a PC and graphing it in Excel or directly with its software of the thermometer data logger.

Measurement Range: -200°C ~ 1,370°C (-328°F ~ 2,498°F)

Data Logger Accuracy:

-200 to 200 °C: ±(0.2% reading +1°C) 200 °C to 400 °C : ±(0.5% reading +1°C) 400 °C to 1370 °C: ±(0.2% reading +1°C) -328 °F to 200 °F ±(0.5% reading +1°F) -200 °F to 200 °F ±(0.2% reading +1°F) 200 °F to 2498 °F ±(0.3% reading +1°F)

Temperature scale: °C or °F user-selectable Resolution: 0.1°C or 0.1°F (200 °C~1370°C, 1°C)

Sensor: K type Thermocouple probe

Sampling rate: 3 seconds per testing circle

Input Protection: 60V DC or 24V RMS AC Maximum

Power Requirement	1 piece 9V battery
Dimensions	7.2" x 2.5" x 1.2" (184x64x30mm)
Weight	7.4 oz (210g)
Certificate	CE
Accessories	RS-232 cable and software for WINDOWS), Deluxe carrying case, owner manual, TPK- 01 bead probe x 2 pcs Option Accessory: AC adaptor(DC 9V), Special Type K thermocouples



DTM-321, DTM-322

Temperature and **Humidity Meter**

DTM-321: Dual Input.Temperature and humdity meter. DTM-322: Dual Input + Data Recorder.+RS-232 interface (optional USB cable)



DTM-321

- Temp:-20°C ~ 60°C (-4°F ~ 140°F) K-type: -200°C ~ 1,370°C (-328°F ~ 2,498°F) Humidity: 0 ~ 100% RH • 4 Digit, Triple display.
- K-type Termocouple.
- Reading hold °C or °F annunciators.
 MAX, MIN. function.
- Auto power off.ΔREL function.
- Automatic low battery indication.
- RS-232 computer interface.
- RS-232 cable and software for Windows (Options).

DTM-322

- Temp:-20°C ~ 60°C (-4°F ~ 140°F) K-type: -200°C ~ 1,370°C (-328°F ~ 2,498°F) Humidity: 0 ~ 100% RH
- Data Logging capacity 16,000 records.
 4 Digit, Triple display.
 K-type Termocouple.

- Reading hold, °C or °F annunciators.
 MAX, MIN function.
- · Auto power off.
- Time function.
- · Automatic low battery indication.
- RS-232 computer interface.
- RS-232 cable and software for Windows.

Measurement Range	T: -20 ~ 60 (-4 ~ 140)
Accuracy	-20 ~ +60: T1:±0.7 -4 ~ 140 T1:±1.4 -200 ~ 1370: T2:±(0.3%rdg+1) typical -328 ~ 2498 T2:±(0.3%rdg+2) typical
Temperature Scale	Celsius or Fahrenheit user-selectable
Resolution: Humidity	0.1%RH;Temp.T1:0.1,0.1 T2:-200~200,0.1; 200 ~ 1370,1.
Sensor	K-type Thermocouple
Response Time (T1)	Humidity:75 sec. in slowly moving air
Temperature	40 sec. in slowly moving air
Input Protection	60V DC or 24V rms AC Maximum
General Power Requirement	1 piece 9V battery
Dimensions	Meter: 10.8" x 2.5" x 1.2" (186x64x30mm) Probe: 7.5" x 0.6" (190x15mm)
Weight	11.2 oz(320g)
Accessories	1 x TPK-01,probe, 9V battery, Deluxe carrying case,owners manual, RS-232 cable & software for Windows ■ Software for Windows ■ Software for Windows



DTM-301H

Large Display Thermometer Hygrometer

DTM-507 is an advanced thermocouple thermometer and thermometer recorder with high accuracy and complete functions. It can display thermocouple temperature signals from two sources at the same time, and can replace different types of thermocouple temperature probes according to the measurement needs of use.



Features

- T1, T2 for various thermocouple
- · Triply display with set-able backlight
- · Data logger function
- · Save Data: 128 samples with real-time data
- Data Logger: 16 sets, Maximum 1024 data capacity
- T/C Offset Adjust

- REC, MAX, MIN, MAX-MIN, AVG, REL, HOLD functions
- T1, T2, T1-T2, Time and Memory No
- Resolution 0.1/1oC to 0.1/1oF
- · Warning beeper with Hi/Lo setting
- · TIME, REL, Record interval, APO time setting

Thermocouple Range	K-TYPE (0.1°, 1° for above 2000°F) -200°C to 1372°C, -328°F to 2501°F J-TYPE (0.1°, 1° for above 2000°F) -210°C to 1200°C, -346°F to 2192°F T-TYPE(0.1°) -200°C to 400°C, -328°F to 752°F E-TYPE(0.1°) -210°C to 1000°C, -346°F to 1832°F R-TYPE(1°) 0°C to 1767°C, 32°F to 3212°F S-TYPE(1°) 0°C to 1767°C, 32°F to 3212°F N-TYPE (0.1°, 1° for above 2000°F) -50°C to 1300°C, -58°F to 2372°F
Accuracy	K/J/T/E-TYPE ±(0.05% rdg + 0.3°C) on -50°C to 1372°C ±(0.05% rdg + 0.7°C) on -50°C to -210°C ±(0.05% rdg + 0.6°F) on -58°F to 2501°F ±(0.05% rdg + 1.4°F) on -58°Fto -346°F
	N-TYPE ±(0.05% rdg + 0.8°C) on -50°C to 0°C ±(0.05% rdg + 0.4°C) on 0°C to 1300°C ±(0.05% rdg + 1.6°F) on -58°F to 32°F ±(0.05% rdg + 0.8°F) on 32°F to 2372°F
	R/S-TYPE ±(0.05% rdg + 2°C) on 0°C to 1767°C ±(0.05% rdg + 4°F) on 32°F to 3212°F



DLM-536

Light Meter with Data Logger



The DLM-536 Series, manufactured by Tecpel is a data logging light meter equipped with RS-232 interface and software. It has dimensions of 146 x 70 x 39 mm, weight of 300 g, and operating temperature of 40 °C. It is used in applications involving industrial, commercial, photography, videography, construction, engineering, and security.

Features

- · Spectrum of photo sensor meets C.I.E.
- Photopic curve V(I)
- 16000 Records Data logging capacity
- RS-232 interface (software included)
- · Measurement of luminous intensity
- PC Software

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Measuring range	20/200/2000/20000 Lux , 20/200/2000/20000 Fc
Luminous intensity (cd)	Intensity = illuminance x (length)2
Length	feet (Fc) meter (Lux)
Resolution	0.01 Lux
Accuracy	±(3% rdg + 5dgts) (calibrated to standard incandescentlamp, 2856 K)
Overrang display	OL
Record (Data logging)	16000 Point Data logger
Sensor	Silicon photo diode
Sensor lead length	150cm (approx)
Sensor probe	100(L) x 60(W) x 27(H) mm
Dimensions / Weight	146(L) x 70(W) x 39(H) mm / 300g (approx)
Power source	One 9V battery
Battery life	50hrs (approx)
Operating Storage Condition	0 °C ~ 40 °C (32°F~104°F) below 80% RH -10°C ~ 60°C (14°F~140 °F) below 70% RH
Accessories	Carrying case, 9V battery,instruction manual, Software, RS-232 cable, 9 Pin to 25 Pin gender changer



DSL-331

Programmable Sound Level Data Logger

Features

- Auto Ranging Measurement 30dB to 130dB
 Work with Window Software
 32,000 Records Data Logger
 Bar graph Indication with Back Light
 RS-232 Real Time Display Software for Window 05/09/2009 Window 95/98/2000
- Frequency Weighting: A, C
 4-Digit Display with updated cycle 0.5s
 0.1dB resolution
- Max/Min Hold Function
- Tripod Connection Hole Able to connect Camera Tripot Stand
- AC/DC signal output
- · Overload condition indication
- Auxiliary output jackIEC 651 Type II, ANSI S1.4 Type2.
- Back screw hole tripod connectionExternal Power DC 9V input
- The standard Fast & Slow Time weightings Calibration Potentiometer easy to adjust



Standard Applied	JEGGEL T. G. ANGLOL J. T.
Standard Applied	IEC651 Type 2, ANSI S1.4 Type 2
Frequency Range	31.5Hz ~ 8KHz
Measuring Level Range	30 ~ 130dB
Frequency Weighting	A/C
Microphone	1/2 inch electric condenser microphone Display
LCD	Back Light Function
Digital Display	4 digits
Resolution	0.1dB
Display Update	0.5 sec
Time Weighting	FAST (125mS); SLOW(1 Sec)
Accuracy	±1.5dB (under reference condition at 94dB 1KHz)
Dynamic Range	100 dB
Dynamic Hange	100 02
Over and Under range Indi	cation Function 'OVER' is displayed, while input is more than upper limit of range. ile input is less than lower limit of range.
Over and Under range Indi	cation Function 'OVER' is displayed, while input is more than upper limit of range.
Over and Under range Indi 'UNDER' is displayed, wh	cation Function 'OVER' is displayed, while input is more than upper limit of range. ile input is less than lower limit of range.
Over and Under range Indi 'UNDER' is displayed, wh	cation Function 'OVER' is displayed, while input is more than upper limit of range. ile input is less than lower limit of range. Hold Reading the Maximum and Minimum Value
Over and Under range Indi 'UNDER' is displayed, wh MAX/MIN Hold AC Output	cation Function 'OVER' is displayed, while input is more than upper limit of range. ile input is less than lower limit of range. Hold Reading the Maximum and Minimum Value 1V rms at FS (Full Scale), output impedance : Approx. 100 Ω
Over and Under range Indi 'UNDER' is displayed, wh MAX/MIN Hold AC Output DC Output	cation Function 'OVER' is displayed, while input is more than upper limit of range. ile input is less than lower limit of range. Hold Reading the Maximum and Minimum Value 1V rms at FS (Full Scale), output impedance : Approx. 100 Ω 10mV/dB, Output impedance approx. 1K Ω
Over and Under range Indi 'UNDER' is displayed, wh MAX/MIN Hold AC Output DC Output Auto Power Off	cation Function 'OVER' is displayed, while input is more than upper limit of range. Hold Reading the Maximum and Minimum Value 1V rms at FS (Full Scale), output impedance : Approx. 100 Ω 10mV/dB, Output impedance approx. 1K Ω 30 minutes if no operation
Over and Under range Indi 'UNDER' is displayed, wh MAX/MIN Hold AC Output DC Output Auto Power Off Power Requirement	cation Function 'OVER' is displayed, while input is more than upper limit of range. Hold Reading the Maximum and Minimum Value 1V rms at FS (Full Scale), output impedance : Approx. 100 Ω 10mV/dB, Output impedance approx. 1K Ω 30 minutes if no operation One piece 9V battery NEDA 1604 Power Life About 50 Hours (Alkaline battery)
Over and Under range Indi 'UNDER' is displayed, wh MAX/MIN Hold AC Output DC Output Auto Power Off Power Requirement Voltage	cation Function 'OVER' is displayed, while input is more than upper limit of range. Hold Reading the Maximum and Minimum Value 1V rms at FS (Full Scale), output impedance : Approx. 100 Ω 10mV/dB, Output impedance approx. 1K Ω 30 minutes if no operation One piece 9V battery NEDA 1604 Power Life About 50 Hours (Alkaline battery) 9VDC (8~ 15 V DC Max); Supply current : > 30mADC
Over and Under range Indi 'UNDER' is displayed, wh MAX/MIN Hold AC Output DC Output Auto Power Off Power Requirement Voltage Operation Temperature	cation Function 'OVER' is displayed, while input is more than upper limit of range. Hold Reading the Maximum and Minimum Value 1V rms at FS (Full Scale), output impedance : Approx. 100 Ω 10mV/dB, Output impedance approx. 1K Ω 30 minutes if no operation One piece 9V battery NEDA 1604 Power Life About 50 Hours (Alkaline battery) 9VDC (8~ 15 V DC Max); Supply current : > 30mADC 0 to 40 °C (32 to 104 °F)
Over and Under range Indi 'UNDER' is displayed, wh MAX/MIN Hold AC Output DC Output Auto Power Off Power Requirement Voltage Operation Temperature Operation Humidity	cation Function 'OVER' is displayed, while input is more than upper limit of range. Hold Reading the Maximum and Minimum Value 1V rms at FS (Full Scale), output impedance : Approx. 100 Ω 10mV/dB, Output impedance approx. 1K Ω 30 minutes if no operation One piece 9V battery NEDA 1604 Power Life About 50 Hours (Alkaline battery) 9VDC (8~ 15 V DC Max); Supply current : > 30mADC 0 to 40 °C (32 to 104 °F) 10 to 90% RH



ZG-106CO2 Monitor



The ZG106 is a new and low-cost carbon dioxide monitor implementing IR-SoC technology. Its many features include a data logger that can record up to 24 hours of data, a CO2 level alarm, and an extreme level indicator.

The ZG106 accurately detects carbon dioxide levels between 0 to 3000 ppm. By using an in-house ASIC design, Tecpel has created a CO2 monitor that has an extremely low parts count, attributing to the low cost of the ZG106.

This gas monitor is suitably fit for applications in Indoor Air Quality(IAQ), HVAC, safety, other industries.

Features

- · Ultra low cost CO2 Monitor achieved by New IR-SoC Technology .
- It uses NDIR technology to improve the long term stability.
- Portable, accurate handheld CO2 Monitor.
- The Alarm mode will sound at 1000 PPM or adjust the alarm level
- Max/Min mode

0-3,000 ppm display
1ppm at 0~1,000ppm / 5ppm at 1,000~2,000ppm 10ppm at 2,000~3,000ppm
±50 ppm or ±5% of reading
±20 ppm
±0.1% of reading per °C or ±2 ppm per °C, whichever is greater, referenced to 25°C
0.13% of reading per mm Hg (Corrected via user input for altitude)
Interval 12 months, offset adjustment using single gas at 0-1000 ppm CO2. Full factory calibration available.
32 to 122°F (0 to 50°C)
0.1°F (0.1°C)
°F / °C, or Off. Set with Up / Down