ZOGLAB

ZOGLAB Microsystem Co.,Ltd
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DSR™ Series

Data logger for temperature and humidity

DSR series data loggers are low cost digital instruments integrated with signal collection, display, storage and analysis. They suit almost every application, for example, pharmaceutical, electronic, foodstuff, HVAC, archives management, agriculture research, textile, meteorology, transportation, biochemistry laboratory, etc. After years of research and development, DSR series can not only log temperature, humidity, pressure, gas strength and other parameters, but also satisfy user's needs of wireless transmission, net monitoring and system secondary development.

More info please visit www.zoglab.cn

Features & Advantages

Super low cost to realize energy-conservation and environmental protection

When DSR series are in standby mode, the operating current is only 50 μ A, and power less than 0.18 mW, which supports DSR with a 3.6V/2400mAh lithium battery to continuously work for 3~5 years(depend on different refresh interval).

Note: Current consumes more when DSR connects to PC via USB or RS232 interface.

LCD with wider viewing angle and redundant temperature range in normal operation

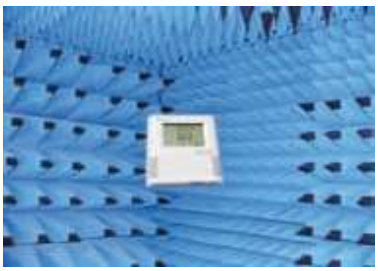
LCD equipped on DSR series, uses FSTN technology for much clearer display. User can easily get the display on LCD even at the viewing angle of 170°. Operation temperature of LCD ranging from -30℃ to 70℃, brings it possible to be used in more applications.

Flexible networking, continuous logging

DSR data loggers support pure networking in form of RS485/LAN/Wi-Fi/ Zigbee/ others for central management, or mixed networking to access Internet for large-scale application. DSR loggers keep on displaying, logging and alarming in the following 10~12 months when networking power fails, and immediately connect to server to upload data when the networking regains power. It does help a lot to backup important original temperature and humidity data.

Safety design, strict EMC test

ZOGLAB DSR series pass both CE and FCC certificates, and are manufactured according to the requirements of RoHS. DSR series are able to withstand a 25KV static and to avoid secondary pollution to super clean areas thanks to the ABS+PC housing which is flame-retardant and free of toxicity.



Expert & smart electrical design

ZOGLAB talented R&D team design DSR series to be with flexible power and communication interfaces, redundant voltage ranging of 5~24V, automatically polarity recognition and adaptive RS232 or RS485 interface, which bring great conveniences for on-site debugging and installation.

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Product Description

① Display area

② Vent

③ Humidity sensor

④ Temperature sensor

⑤ Communication port

⑥ Power port

⑦ Backlight button

⑧ Reset button

⑨ Mounting hole

⑩ Bracket

Naming Convention

DSR series can display, log and analyse regular environmental variable parameters including temperature, humidity, barometric pressure, wind speed, wind direction, precipitation rain falls, radiation, carbon dioxide concentration, etc. DSR analysis software with graphic interface, carries out professional data analysis. ZOGLAB classifies DSR series into eight types as below: DSR-TH for both temperature and humidity; DSR-T for single temperature; DSR-TT for dual temperatures; DSR-THEXT for both temperature and humidity while with an external sensing probe; DSR-THP for temperature, humidity and pressure; DSR-$THCO_2$ for temperature, humidity and carbon dioxide; DSR-THDP for temperature, humidity and differential pressure and DSR-DP for differential pressure.

DSR - TH RA

Abbreviation	Measuring Object		Interface		Memory Size	
DSR, short for Digital Signal Recorder, is a new type of low cost digital instrument, using mixed signal processor to collect, display, store and analyse analog signals.	TH	Temperature and Humidity (internal probe)	R	RS232/485	A	10,918 units
	T	Temperature	U	USB	B	21,840 units
	TT	Dual Temperatures	L	LAN	C	180,220 units
	THEXT	Temperature and Humidity (external probe)	W	Wi-Fi	D	360,440 units
	THP	Temperature Humidity and Atmospheric Pressure	B	Bluetooth	E	External Storage
	$THCO_2$	Temperature Humidity and Carbon Dioxide	F	RF		
	THDP	Temperature Humidity and Differential Pressure	Z	Zigbee		
	DP	Differential Pressure	G	GPRS		

Communication Interfaces

RS232/485 Communication Interface
For R Series

PIN	Signal	PIN	Signal
1	Alarm1	6	V485
2	RXD	7	485-
3	TXD	8	485+
4	GND485	9	Alarm2
5	GND232		

USB Interface
For U Series

PIN	Signal	PIN	Signal
1	VBUS	3	D+
2	D-	4	GND

LAN Interface
For L Series

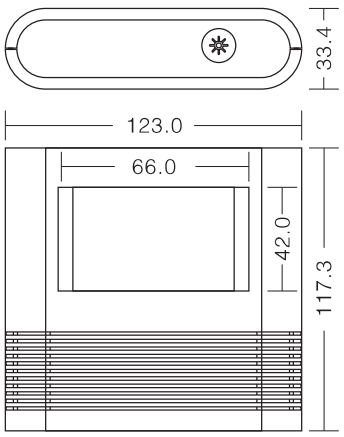
PIN	Signal	PIN	Signal
1	TX+	5	N/C(EPWR+)
2	TX-	6	RX-
3	RX+	7	N/C(EPWR-)
4	N/C(EPWR+)	8	N/C(EPWR-)

SMA RF Interface
For Wi-Fi/Bluetooth/RF/Zigbee/GPRS series

PIN	1	2
Signal	RF signal	GND

Interfaces for other series will be explained separately elsewhere.

Dimensions (Unit:mm)



DSR-TH

Data Logger for Temperature and Humidity

Specifications

- Built-in compact high precision temperature and humidity sensors
- Selectable USB, RS232/485, LAN, wireless communication interfaces
- High definition LCD with wider viewing angles and redundant operation temperature
- Support on-line linear and nonlinear calibration
- Suitable for pharmaceutical, electronic production, biochemistry laboratory, museum management and other applications

Low Cost | Large-Screen Display | Mass Memory | Alarm Symbol | Environmental | Networking

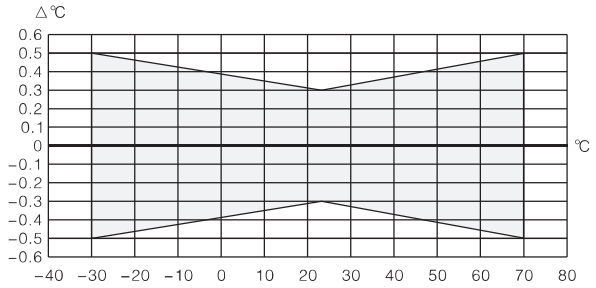
Measuring Data	
T Measuring range	-30℃~70℃
T Accuracy	±0.3℃(23℃±2℃), Full scale ±0.5℃
T Resolution	0.1℃/0.2℉
RH Measuring range	0%~100%RH
RH Accuracy	±3%RH(10%~85%RH), other range ±5%RH
	(Testing environment 23℃±2℃)
	±2%RH(High-precision version)
RH Resolution	0.1%RH

General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] /
	360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/
	Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds)
	5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS
Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

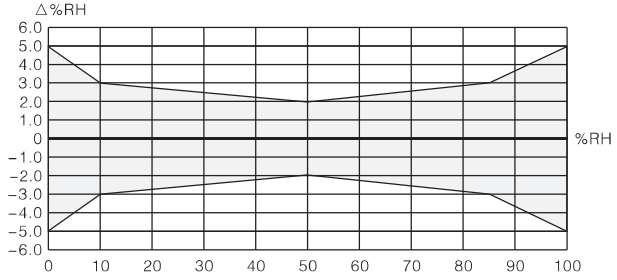
Sensing Probe	
Model	Internal

General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	260g

Temperature Accuracy



Humidity Accuracy



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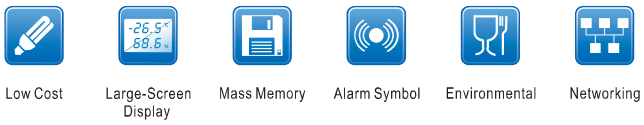
DSR-TH (professional)

Data Logger for Temperature and Humidity

Specifications

- Built-in compact high precision temperature and humidity sensors
- Selectable USB, RS232/485, LAN, wireless communication interfaces
- High definition LCD with wider viewing angles and redundant operation temperature
- Support on-line linear and nonlinear calibration
- Suitable for pharmaceutical, electronic production, biochemistry laboratory, museum management and other applications



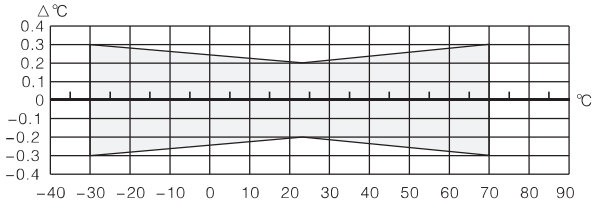
Measuring Data	
T Measuring range	-30℃~70℃
T Accuracy	±0.2℃(23℃±2℃), Full scale ±0.3℃
T Resolution	0.1℃/0.2℉
RH Measuring range	0%~100%RH
RH Accuracy	±0.8%RH(40%~60%RH), other range ±1.5%RH (Testing environment 23℃±2℃)
RH Resolution	0.1%RH

General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] / 360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/ Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds) 5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS
Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

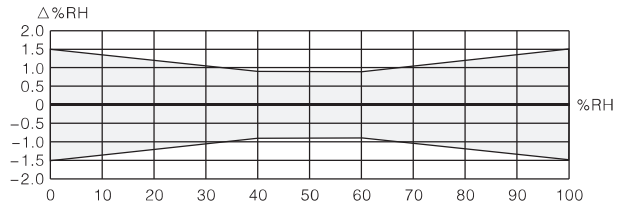
Sensing Probe	
Model	Original temperature and humidity probe
Dimensions	Φ15×82.5mm

General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	260g

Temperature Accuracy



Humidity Accuracy



Probe Dimensions

(Unit:mm)

DSR-THEXT

Data Logger for Temperature and Humidity

Specifications

- Using external compact probe especially for HVAC application to measure and log temperature and humidity data inside pipes with minimal invasion.
- Support screen and audible alarm
- Original fittings for sensor connection, ensures 100,000 plugs
- Suitable for HVAC, agriculture research, plants and animal growth monitoring and other applications

Low Cost | Large-Screen Display | Mass Memory | Alarm Symbol | Environmental | Networking

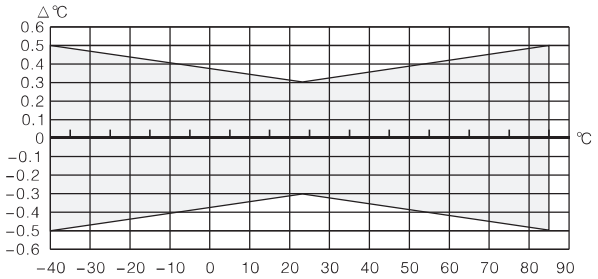
Measuring Data	
T Measuring range	-40℃~85℃
T Accuracy	±0.3℃(23℃±2℃), Full scale ±0.5℃
T Resolution	0.1℃/0.2℉
RH Measuring range	0%~100%RH
RH Accuracy	±3%RH(10%~85%RH), other range ±5%RH
	(Testing environment 23℃±2℃)
	±2%RH(High-precision version)
RH Resolution	0.1%RH

General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] /
	360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/
	Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds)
	5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS
Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

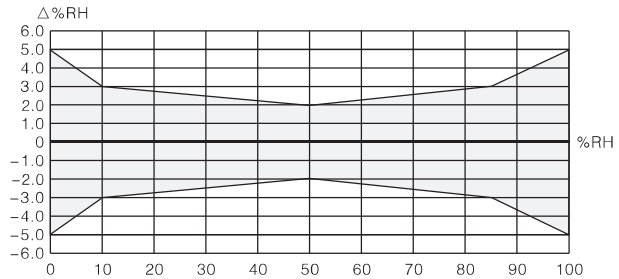
Sensing Probe	
Model	External sensor(TH both in one)
Dimensions	Φ12×73mm
Wire	Φ3.5×3000mm
	low-temperature and corrosion resistant

General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	355g

Temperature Accuracy

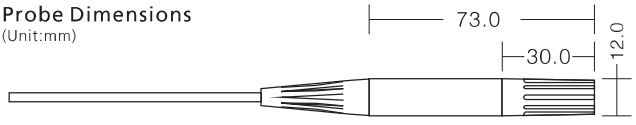


Humidity Accuracy



Probe Dimensions

(Unit:mm)



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DSR-THEXT (professional)

Data Logger for Temperature and Humidity

Specifications

- Original high precision digital temperature and humidity probe with accuracy of ±0.3℃ and ±0.8%RH
- Sensor cable being resistant to both high and low temperature, fit for harsh environment
- Original fittings for sensor connection, ensures 100,000 plugs
- Suitable for high precision laboratories, biochemistry workshops, HVAC and other applications

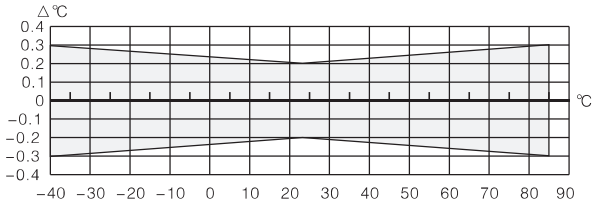
Measuring Data	
T Measuring range	-40℃~85℃
T Accuracy	±0.2℃(23℃±2℃), Full scale ±0.3℃
T Resolution	0.1℃/0.2℉
RH Measuring range	0%~100%RH
RH Accuracy	±0.8%RH(40%~60%RH), other range ±1.5%RH
	(Testing environment 23℃±2℃)
RH Resolution	0.1%RH

General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] /
	360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/
	Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds)
	5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS
Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

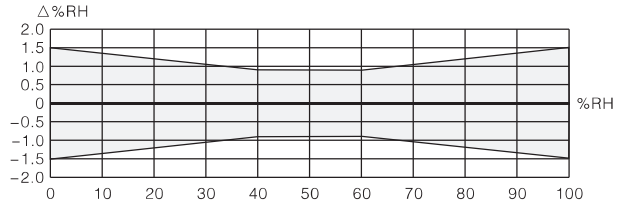
Sensing Probe	
Model	Original temperature and humidity probe
Dimensions	Φ15×184.5mm
Wire	Φ5, 2m/5m/10m
	low-temperature and corrosion resistant

General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	360g

Temperature Accuracy

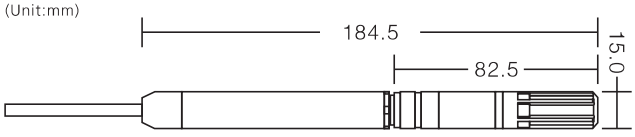


Humidity Accuracy



Probe Dimensions

(Unit:mm)



DSR-T

Data Logger for Temperature

Specifications

- Original medical probe being resistant to low temperature and free of toxicity and halogen
- Outstanding measuring resolution even in low temperature
- Original fittings for sensor connection, ensures 100,000 plugs
- Support single DSR connecting to PC via USB interface, and multiple DSR grouped in RS485 or LAN networking for central management.
- Suitable for refrigerator, cold storage, refrigerator cars, constant temperature box, cold-chain cargo and other applications

Low Cost | Large-Screen Display | Mass Memory | Alarm Symbol | Environmental | Networking

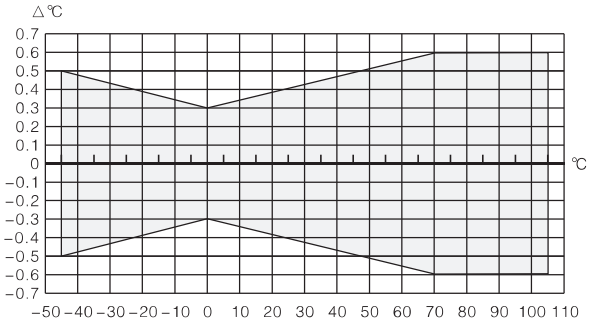
Measuring Data	
T Measuring range	-45℃~105℃
T Accuracy	±0.5℃(-45℃~70℃), ±0.6℃(70℃~105℃)
T Resolution	0.1℃/0.2℉

General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] / 360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/ Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds) 5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS
Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

Sensing Probe	
Model	Original low temperature resistant probe
Dimensions	5×6×14.5mm
Wire	2×4×3000mm low-temperature and corrosion resistant

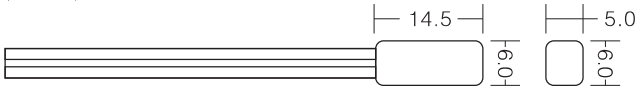
General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	305g

Temperature Accuracy



Probe Dimensions

(Unit:mm)



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DSR-TT

Data Logger for Dual Temperatures

Specifications

- Original medical probes being resistant to low temperature and free of toxicity and halogen
- Dual temperature channels for simultaneous monitoring of double-door refrigerators.
- Original fittings for sensor connection, ensures 100,000 plugs
- Support single DSR connecting to PC via USB interface, and multiple DSR grouped in RS485 or LAN networking for central management.
- Suitable for refrigerator, cold storage, refrigerator cars, constant temperature box, cold-chain cargo and other applications

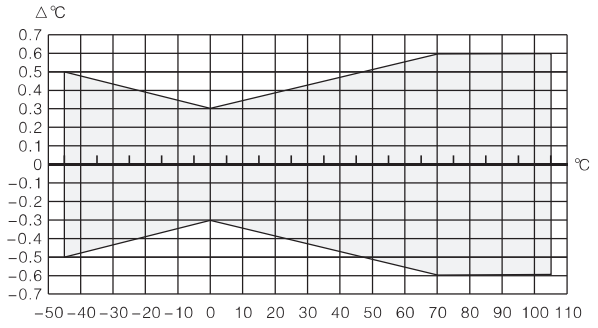
Measuring Data	
T1 Measuring range	-45℃~105℃
T1 Accuracy	±0.5℃(-45℃~70℃), ±0.6℃(70℃~105℃)
T1 Resolution	0.1℃/0.2℉
T2 Measuring range	-45℃~105℃
T2 Accuracy	±0.5℃(-45℃~70℃), ±0.6℃(70℃~105℃)
T2 Resolution	0.1℃/0.2 F

General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] / 360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/ Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds) 5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS
Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

Sensing Probe	
Model	Original low temperature resistant probe
Dimensions	5×6×14.5mm
Wire	2×4×3000mm low-temperature and corrosion resistant

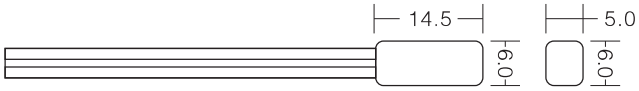
General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	345g

Temperature Accuracy



Probe Dimensions

(Unit:mm)



DSR-ULT

Data Logger for Ultra Low Temperature

Specifications

- Special probe using military industrial technology supports measuring temperature ultra low to -100℃
- Original fittings for sensor connection, ensures 100,000 plugs
- Support single DSR connecting to PC via USB interface, and multiple DSR grouped in RS485 or LAN networking for central management.
- Suitable for medical refrigerator, biological specimens preservation, scientific research and other applications

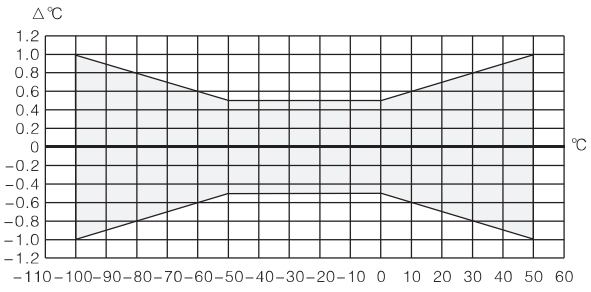
Measuring Data	
T Measuring range	-100℃~50℃
T Accuracy	±0.5℃(-50℃~0℃), other range ±1℃
T Resolution	0.1℃/0.2℉

General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] / 360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/ Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds) 5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS
Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

Sensing Probe	
Model	External military-industrial ultra low temperature resistant probe
Dimensions	Φ7×51mm
Wire	2×4×3000mm low-temperature and corrosion resistant

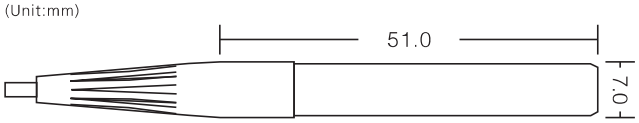
General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	293g

Temperature Accuracy



Probe Dimensions

(Unit:mm)



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DSR-ELT

Data Logger for Extremely Low Temperature

Specifications

- Special probe using military industrial technology supports measuring temperature extremely low to -196℃
- Original fittings for sensor connection, ensures 100,000 plugs
- Support single DSR connecting to PC via USB interface, and multiple DSR grouped in RS485 or LAN networking for central management.
- Suitable for medical refrigerator, biological specimens preservation, scientific research and other applications

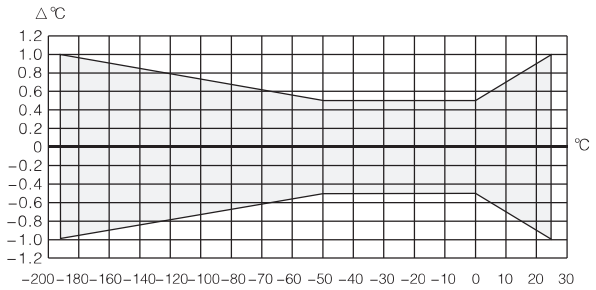
Measuring Data	
T Measuring range	-196℃~25℃
T Accuracy	±1℃
T Resolution	0.1℃/0.2℉

General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] / 360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/ Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds) 5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS
Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

Sensing Probe	
Model	External military-industrial ultra low temperature resistant probe
Dimensions	Φ7×51mm
Wire	2×4×3000mm low-temperature and corrosion resistant

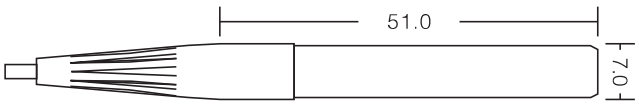
General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	293g

Temperature Accuracy



Probe Dimensions

(Unit:mm)



DSR-THP

Data Logger for Temperature Humidity and Pressure

Specifications

- Simultaneously measures and logs temperature, humidity and pressure
- Support out-of-limit alarm as well as on-line linear calibration
- High precision of ±0.5hPa in the full range of 500 hPa~1100 hPa
- In compliance with ISO17025, GLP and aerospace engineering practices, etc.
- Suitable for high-end laboratory, semiconductor research, aerospace, meteorology, defence and protection and other applications

Low Cost | Large-Screen Display | Mass Memory | Alarm Symbol | Environmental | Networking

Measuring Data	
T Measuring range	-30℃~70℃
T Accuracy	±0.3℃(23℃±2℃), Full scale ±0.5℃
T Resolution	0.1℃/0.2℉
RH Measuring range	0%~100%RH
RH Accuracy	±3%RH(10%~85%RH), other range ±5%RH
	(Testing environment 23℃±2℃)
	±2%RH(High-precision version)
RH Resolution	0.1%RH
P Measuring range	500.0~1100.0hPa
P Accuracy	±0.5hPa A, ±1.0hPa B
P Resolution	0.1hPa

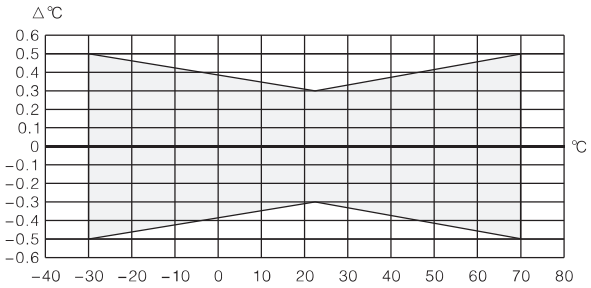
General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] /
	360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/
	Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds)
	5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS

Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

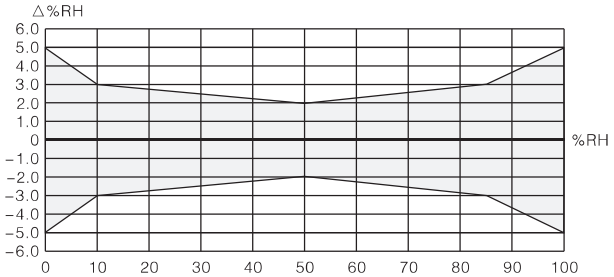
Sensing Probe	
Model	Internal

General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	280g

Temperature Accuracy



Humidity Accuracy



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DSR-THCO$_2$

Data Logger for Temperature Humidity and Carbon Dioxide

Specifications

- Simultaneously measures and logs temperature, humidity and carbon dioxide
- High precision IR CO_2 sensor, with a lifetime of 15 years
- Optional measuring range between 2000ppm and 10000ppm
- Especially designed and developed for air quality, agriculture research, biological reaction, environment protection and other applications

Measuring Data	
T Measuring range	-30℃~70℃
T Accuracy	±0.3℃(23℃±2℃), Full scale ±0.5℃
T Resolution	0.1℃/0.2℉
RH Measuring range	0%~100%RH
RH Accuracy	±3%RH(10%~85%RH), other range ±5%RH
	(Testing environment 23℃±2℃)
RH Resolution	0.1%RH
CO_2 Measuring range	0~9999.9ppm(Customizable)
CO_2 Accuracy	±70ppm, ±40ppm
CO_2 Resolution	0.1ppm

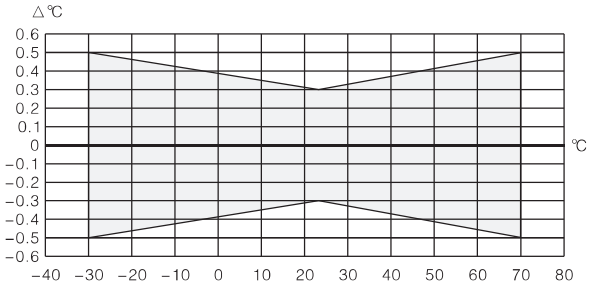
General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] /
	360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/
	Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds)
	5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS

Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

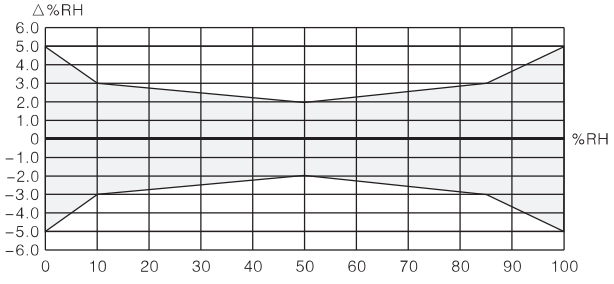
Sensing Probe	
Model	Internal

General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	300g

Temperature Accuracy



Humidity Accuracy



DSR-THDP

Data logger for Temperature Humidity and Differential Pressure

Specifications

- Simultaneously measures and logs temperature, humidity and differential pressure
- Support on-line linear calibration and zero setting
- Customized differential pressure measuring range between 0 and 1000Pa
- Suitable for pharmaceutical workshops, electronic production, precision machinery and other applications

Low Cost | Large-Screen Display | Mass Memory | Alarm Symbol | Environmental | Networking

Measuring Data	
T Measuring range	-30℃~70℃
T Accuracy	±0.3℃(23℃±2℃), Full scale ±0.5℃
T Resolution	0.1℃/0.2℉
RH Measuring range	0%~100%RH
RH Accuracy	±3%RH(10%~85%RH), other range ±5%RH
	(Testing environment 23℃±2℃)
RH Resolution	0.1%RH
DP Measuring range	0~100.0Pa, 0~200.0Pa
DP Accuracy	±1.5%FS±3Pa
	(Testing environment 25℃, 980.hPa~1015.0hPa)
DP Resolution	0.1Pa

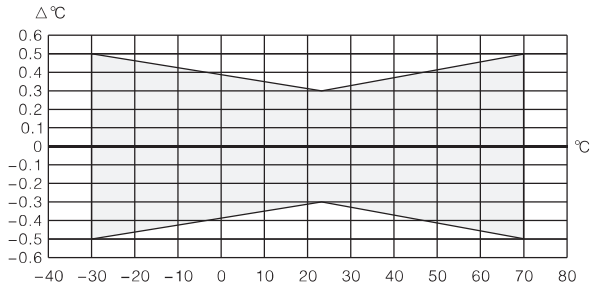
General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] /
	360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/
	Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds)
	5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS

Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

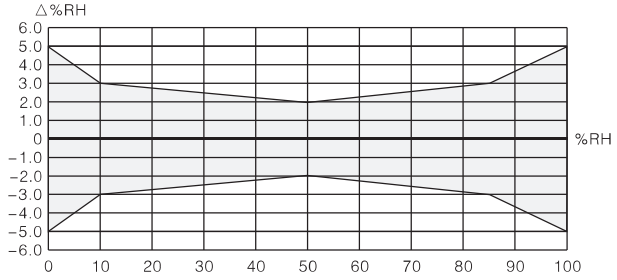
Sensing Probe	
Model	Internal

General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	293g

Temperature Accuracy



Humidity Accuracy



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DSR-DP

Data Logger for Differential Pressure

Specifications

- Especially designed for differential pressure system of pharmacy and clean workshops
- Customized differential pressure measuring range between 0 and 1000Pa
- Measuring resolution high to 0.1Pa, best accuracy of 2.0Pa
- Support on-line linear calibration and zero setting
- Suitable for pharmaceutical workshops, electronic production, precision machinery and other applications

Measuring Data	
T Measuring range	-30℃~70℃
T Accuracy	±0.3℃(23℃±2℃), Full scale ±0.5℃
T Resolution	0.1℃/0.2℉
DP Measuring range	0~100.0Pa, 0~200.0Pa
DP Accuracy	±1.5%FS ±3Pa
	(Testing environment 25℃, 980.0hPa~1015.0hPa)
DP Resolution	0.1Pa

General	
Memory size	10,918[A] / 21,840[B] / 180,220[C] /
	360,440[D] values
Alarm	High level and low level, display+beep+backlight
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Start immediately / delay start / timing start
End mode	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	RS232/485[R]/USB[U]LAN[L]/
	Wireless [W、B、Z、F、G]
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 10seconds)
	5 years(In sleep mode)
RTC battery	CR2032
Clock accuracy	<12mins/year
External voltage	5~24V DC
Software	ANALYSIS
Storage temperature	-50℃~90℃
IP Class	IP54
Certificates	CE、FCC、VCCI、C-TICK

Sensing Probe	
Model	Internal

General Features	
Housing	ABS+PC,flame-retardant,toxicity and halogen free
Dimensions	123.0×117.3×33.4mm
Display area	66×42mm
Weight	293g

Temperature Accuracy