

OMET





Series T3110

Temperature and Humidity series T3110 Outdoor, Indoor probe with 4-20mA output

Technical data

Technical parameters	Value
Output	4-20mA
Measured Value	Temperature + Relative Humidity
Construction Type	Ambient Air
Design	Industrial
Temperature Measuring Range	-30 to 80 °C
Relay Output	No
Two-State Input	No
Lcd Display	Yes
PoE	No
Relative humidity range	0 to 100%
Accuracy of relative humidity measurement	±2.5% relative humidity from 5 to 95% at 23°C
Accuracy of temperature output	±0.4°C
Available temperature units	degrees Celsius, Fahrenheit
Accuracy and range of dew point temperature output - for more details see graphs	±1.5°C at ambient temperature T<25°C and RH>30% range -60 to +80 °C
Accuracy and range of absolute humidity output	±1.5g/m ³ at ambient temperature T < 25°C range 0 to 400 g/m ³
Accuracy and range of specific humidity output	±2g/kg at ambient temperature T < 35°C range 0 to 550 g/kg
Accuracy and range of mixing ratio output	±2g/kg at ambient temperature T < 35°C range 0 to 995 g/kg
Accuracy and range of specific enthalpy output	±3kJ/kg at ambient temperature T < 25°C range: 0 to 995 kJ/kg
Temperature operating range	-30 to +80°C
Temperature operating range of LCD display	readable to operating temperature +70°C, it is recommended to switch OFF the LCD over +70°C
Range of humidity sensor temperature compensation	all temperature range
Current outputs - two-wire connection	4-20mA, galvanic isolated
Configuration of outputs and output range	user adjustable from the PC
Filtering ability of sensor cover	0.025mm - filter with stainless steel mesh
Protection of the case with electronics	IP65 electronics, IP40 sensors
Power	9-30Vdc
Dimensions	88.5 x 170 x 39.5 mm (W x H x D), stem length 75 mm
Weight	approximately 150g
Warranty	3 years



Series S3120E

Temperature and Humidity Series S3120E

Data logger is designed for record of temperature and humidity. Values are stored to a non volatile electronic memory. Data transfer to the personal computer for further analysis is performed via USB, RS232, GSM.

Technical data

Technical parameters	Value
Measured Value	Temperature + Relative Humidity
Construction Type	Ambient Air
Temperature Measuring Range	-30 to 70 °C
Two-State Input	No
Lcd Display	Yes
Built-In Printer	No
Operating temperature range	-30 to +70°C
Accuracy of temperature measurement	±0.6°C from -30 to +30°C ±0.8°C from +30 to +70°C
Accuracy of air humidity measurement	±3% RH from 5 to 95% at 23°C
Accuracy of dew point measurement - see details in graph	2 °C at ambient temperature lower than 25°C and RH > 30%; range -60 to +70 °C
Resolution of the reading	0.1°C, 0.1%RH
Real time clock	year, leap year, month, day, hour, minute, second
Data logging interval	adjustable from 10s to 24h (1minute to 24h in low-power mode)
Display and alarm refresh	each 10 s (each 1 minute in low-power mode)
Total memory capacity	32000 temperature, humidity values in noncyclic logging mode
Data logging modes	noncyclic - data logging stops after filling the memory cyclic - after filling memory oldest data is overwritten by new
Power	Lithium battery 3,6V, size AA
Typical battery life in low-power mode (1 minute sampling)	6 years
Typical battery life in fast mode (10 second sampling)	2.5 years
Battery life in continuous on-line mode with interval 1 minute	reduced to 70% of the above lives in fast mode
Battery life in continuous on-line mode with interval 10 second	1 year
IP protection	IP30
Dimensions	93x64x29mm



Series H3020

Temperature and Humidity series H3020

Technical data

Technical parameters	Value
Output	None
Measured Value	Temperature + Relative Humidity
Construction Type	Ambient Air
Design	Industrial
Temperature Measuring Range	-30 to 80 °C
Relay Output	Yes
Two-State Input	No
Lcd Display	Yes
PoE	No
Maximum switching voltage, current, power of relay output	50V, 2A, 60VA
Audible alarm	from built-in beeper - switchable
Relative humidity range	0 to 100%
Accuracy of relative humidity measurement	±2.5% relative humidity from 5 to 95% at 23°C
Accuracy of temperature output	±0.4°C
Available temperature units	degrees Celsius, Fahrenheit
Accuracy and range of dew point temperature output - for more details see graphs	±1.5°C at ambient temperature T<25°C and RH>30% range -60 to +80 °C
Accuracy and range of absolute humidity output	±1.5g/m ³ at ambient temperature T < 25°C range 0 to 400 g/m ³
Accuracy and range of specific humidity output	±2g/kg at ambient temperature T < 35°C range 0 to 550 g/kg
Accuracy and range of mixing ratio output	±2g/kg at ambient temperature T < 35°C range 0 to 995 g/kg
Accuracy and range of specific enthalpy output	±3kJ/kg at ambient temperature T < 25°C range: 0 to 995 kJ/kg
Temperature operating range	-30 to +80°C
Temperature operating range of LCD display	readable to operating temperature +70°C, it is recommended to switch OFF the LCD over +70°C
Temperature compensation of the humidity sensor	all temperature range
Filtering ability of sensor cover	0.025mm - filter with stainless steel mesh
IP protection	IP65 electronics, IP40 sensors
Power	9-30Vdc, power consumption approximately 1W
Dimensions	136 x 213 x 45 mm (W x H x D), stem length 75mm
Weight	approximately 350g
Warranty	3 years



Series MS55D

Data logger Temperature and Humidity Series MS55D

Data loggers are designed for measuring, recording, evaluation and subsequent processing of input electrical signals, which are subject to relatively slow changes (> 1s). In conjunction with the appropriate sensors and transducers are suitable for monitoring physical quantities.

Technical data

Technical parameters	Value
Total memory capacity	2MB (up to 480 000 values)
Memory type	internal SRAM, backed-up by Lithium battery
Data logging modes	noncyclic - logging stops after filling the memory cyclic - after filling memory oldest data is overwritten by new
Data logging interval	adjustable individually for all input channels from 1 second to 24 hours
Real time clock	year, leap year, month, day, hour, minute, second, backed-up by Lithium battery
Input measured values (1 to 16 inputs)	are defined for each channel by installed input modules (see table) accordingly to user requirements
Resolution of the AD converter (analog channels)	16 bits, conversion duration approximately 60ms/channel
Communication speed	9600, 19200, 57600, 115200 Bd, 230400* Bd (* applicable for USB, Ethernet)
Power	9 to 30Vdc, 24Vdc recommended
Operating temperature range	0 to +50°C
Dimensions including connectors	215 x 225 x 60 mm
Protection	IP20
Weight	approximately 800 g
Warranty	3 years



Series C3121

Temperature and Humidity Series C3121

Thermometer, hygrometer is designed for direct measurement of temperature, relative humidity.

Audio and optical alarm of measured values.

Memory of minimum and maximum measured values.

Function Hold - manual storing of actual values for later displaying.

LCD backlight.

Simultaneous reading of temperature and relative humidity, dew point temperature reading

selectable, external temperature-humidity probe with 1meter cable. Cable lengths 2 and 4 meters available optionally.

Technical data

Technical parameters	Value
Measured Value	Temperature + Relative Humidity
Construction Type	With T+RH Probe on Cable
Temperature Measuring Range	-30 to 105 °C
Data Logging Function	No
Operating temperature range	-10 to +60°C
Temperature sensor	RTD Ni1000/6180ppm
Accuracy of temperature measurement with built-in sensor	±0.4°C
Accuracy of air humidity measurement	±2.5%RH from 5 to 95% at 23°C, resolution 0.1%
Accuracy of dew point measurement	1.5 °C at ambient T < 25°C and RH>30%, range -60 to +80 °C
Power	battery 9V
Battery life	4 months typically
Dimensions	141 x 71 x 27 mm, probe length 135mm, probe diameter 18mm
IP protection	IP20
Weight including battery without probe	approximately 150 g
Warranty	3 years