

Data Logger Opus 10



Product profile

Competitive data logging concept with a big lcd-display. The high memory capacity (120.000 values) suitable them particularly for longtime documentation in laboratories, warehouse, museum etc...

Areas of application

- Temperature and humidity documentation in museums, churches, castles, archaeological monuments
- 2 instruments in one: By the big lcd-display you can use the Opus 10 for measurements and documentation
- Opus 10 with external probes (different thermocouple as an option). ideal for checking and documentation of temperature- and humidity-critical processes
- Climatic applications

Product features

- 120.000 value memory
- Smartgraph Windows Software and interface-cable included
- Adjustable alarm settings
- Big lcd for all measuring sizes
- Model extension by modular conception
- High accuracy ($\pm 0,3$ °C) and resolution (0,1°C)
- Internal real time clock

Technical data

	Opus 10 intern	Opus 10 extern	Opus 10 Thermo	Opus 10 Baro	Opus 10 CO ₂
Type	temperature and humidity		Thermocouple Type E/J/K/N/R/S/T	Temperature and pressure	Temperature and Co ₂
Temperature					
Range	-20 ... +50°C	see below / external probes	according to EN 60584-1	-20 ... +50°C	0 ... 50°C
Resolution	0,1°C	(accessories)	0,2°C resp. R, S 0,5°C	0,1°C	0,1°C
Accuracy	$\pm 0,3$ °C (0 ... 40°C), otherwise $\pm 0,5$ °C		± 1 °C resp. R, S ± 2 °C (probes on request)	$\pm 0,3$ °C (0 ...40°C) otherwise $\pm 0,5$ °C	$\pm 0,3$ °C (0 ...40°C) otherwise $\pm 0,5$ °C
Humidity					
Range	10 ... +95%rH	see below / external probes	- - -	- - -	- - -
Resolution	0,5%rH	(accessories)	- - -	- - -	- - -
Accuracy	$\pm 2,0$ %rH		- - -	- - -	- - -
Pressure					
Range	- - -	- - -	- - -	750...1100 hPa	- - -
Resolution	- - -	- - -	- - -	0,1 hPa	- - -
Accuracy	- - -	- - -	- - -	$\pm 0,5$ hPa at 25°C	- - -
CO₂					
Range	- - -	- - -	- - -	- - -	0...1000 ppm
Resolution	- - -	- - -	- - -	- - -	10 ppm
Accuracy	- - -	- - -	- - -	- - -	± 100 ppm
Display	65 x 40 mm, 2 lines				
Working temperature	-20 ... +50°C				
Power supply	3,6 lithium battery				
Battery life	typically 2 years				
Dimensions	115 x 110 x 25 mm (L x W x H)				
Weight	250 g				
Order No.	5020-0394 ®	5020-0403 ®	5020-0406 ®	5020-0407 ®	5020-0559 ®

Accessories / external probes

Description	Order No.
Temperature probe, 2 m cable for Opus 10 extern -30°C...+70°C, accuracy $\pm 0,2$ °C (-20°C...50°C), otherwise $\pm 0,5$ °C	5020-0404 ®
Temperature / humidity with 2 m cable for Opus 10 extern -30°C...+70°C, Accuracy $\pm 0,2$ °C (-20°C...50°C), otherwise $\pm 0,5$ °C, 0...199%rH, ± 2 %	5020-0405 ®
Battery 3,6 V	5990-0064