



The OPUS20E offers the highest flexibility and is excellent value for money. It allows the connection of up to 4 external temperature and relative humidity sensors, as well as 2 further analogue sensors. Intelligent BUS sensors can be integrated...

Parameters measured

Measurement of Input voltage 0-1V, Current measurement - 2-wires, Current measurement - 3-wires, Thermocouple K, Thermocouple J, Thermocouple S, PT100

Measurement technology

Input voltage 0-1V, Current measurement - 2-wires, Current measurement - 3-wires, Thermocouple K, Thermocouple J, Thermocouple S, PT100

Product highlights

LAN datalogger with built-in sensors and the highest precision and with up to 10 external channels/sensors per Opus20E.

Interfaces

USB (Cable and Monitoring Software SmartGraph3 included)

Article number

8120.30, 8120.30N, 8120.31, 8120.31N

Air flow and differential pressure sensors are typically connected to the OPUS20E via analogue inputs as opposed to the maximum of 4 external temperature or humidity sensors that can be integrated via a digital BUS protocol. In connection with its LAN capabilities, the OPUS20E is able to realize universal measurement networks in real time. For standard applications the SmartGraph 3 comes into play, and in order to fulfill the 21 CFR 11













guidelines the well established and proven MCPS8 software is available.

IMPORTANT: OPUS 20E is discontinued

General	
Dimensions	180 x 78 x 32 mm
Measuring interval	10/30 s, 1/10/12/15/30 min, 1/3/6/12/24 h
Construction	Plastic housing
Operating time with battery	>1 Year
Data storage	16 MB, 3,200,000 measured values
LC-Display	Height 90 x 64 mm
Weight	Approx. 250 g
Included in delivery	PC - Windows Software SmartGraph 3
	for graphical and numerical representation of
	measured values / Instructions/ data cable/
	battery/ WAGO connector / DIN rail bracket
Interface	USB, LAN
Storage interval	1/10/12/15/30 min, 1/3/6/12/24 h
Power supply	4 x LR6 AA Mignon, USB, 24V DC
Operating temperature	-2050 °C
Bus interface	RS485

Input voltage 0-1V	
Measuring range	0 1 V
Unit	V
Accuracy	+/- 200 uV +/- 0.1% of measured value
Resolution	500 uV

Current measurement - 2-wires	
Measuring range	4 20 mA
Unit	mA
Accuracy	\pm 4 uA \pm 0.1 % of measured value
Resolution	5 uA

Current measurement - 3-wires	
Measuring range	0 20 mA
Unit	mA
Accuracy	± 4uA ± 0.1 % of measured value
Resolution	5 uA

Thermocouple K	
Measuring range	-200 1200 °C
Unit	°C
Accuracy	$\pm 1^{\circ}\text{C}$ +/- 0.5 % of measured value at -200 $^{\circ}\text{C}$ 0 $^{\circ}\text{C}$
	±1 °C +/- 0.2 % of measured value at 01200 °C
Resolution	0.2 °C











Thermocouple J	
Measuring range	-200 1200 °C
Unit	°C
Accuracy	± 1 °C +/- 0.5 % of measured value at -200 °C 0 °C
	± 1 °C +/- 0.2 % of measured value at 01200 °C
Resolution	0.2 °C

Thermocouple S	
Measuring range	-50 1700 °C
Unit	°C
Accuracy	\pm 1 °C \pm 0.5 % of measured value at -50 °C 0 °C
	\pm 1 °C \pm 0.2 % of measured value at 0 °C 1,700 °C
Resolution	0.2 °C

PT100	
Measuring range	-200 500 °C
Unit	° C
Accuracy	\pm 0.2 °C \pm 0.1 % of measured value
Resolution	0.02 °C









