

# Lufft OPUS20E for External Sensors



Lufft OPUS20E for External Sensors		Order-No.
<b>Lufft OPUS20E</b> (neutral without Lufft-Logo 8120.30N)		<b>8120.30</b>
<b>Lufft OPUS20E PoE</b> (neutral without Lufft-Logo 8120.31N)		<b>8120.31</b>
<b>Technical data</b>	Dimensions	length 180mm, width 78mm, depth 32mm
	Measurement rate	10/30s, 1/10/12/15/30min, 1/3/6/12/24h
	Storage rate	1/10/12/15/30min, 1/3/6/12/24h
	Construction	plastic housing
	Operation life (battery)	> 1 Year
	Data storage	16 MB, 3,200,000 measured values
	LC-Display	size 90x64 mm
	Weight	approx. 250g
	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
	bus interface	RS 485
	Power supply	4 x LR6 AA Mignon, USB, (POE opt.)
	Max. operation temperature	-20...50°C
<b>Input voltage 0-1V</b>	Measurement range	0 ... 1V
	Accuracy	± 200µV ± 0.1% of measured value
	Resolution	< 500µV
<b>Current measurement</b>	Measurement range	2-wires: 4 ... 20mA, 3-wires: 0 ... 20mA
	Accuracy	± 4µA ± 0.1% of measured value
	Resolution	< 5µA
	Resistance	approx. 50 Ohm
<b>Thermocouple K</b>	Measurement range	-200°C ... 1200°C
	Accuracy	± 1°C ± 0.5% of measured value at -200°C ... 0°C ± 1°C ± 0.2% of measured value at 0°C ... 1200°C
	Resolution	< 0.2°C

With up to 10 external channels/sensors per OPUS20E.

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 via the OPUS20E's RS485 interface (e.g. particle counter).

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 fulfil the 21 CFR 11 guidelines the well-established and proven MCPS7 software is available.



Compatible sensors for OPUS20E		Page
<b>Temperature/ Humidity</b>	Digitale TFF20	24

Further compatible sensors on request.

Humidity:	Transducers with display
Flow:	Flow transmitters
Differential pressure:	Differential pressure transmitters
Particle:	Particle counters
CO <sub>2</sub> :	CO <sub>2</sub> transmitters

With up to 10 external sensors connectable per OPUS20E