Lufft OPUS20E for External Sensors

Lufft OPUS20E for External Sensors				
Lufft OPUS20E (neutral without Lufft-Logo 8120.30N)				
Lufft OPUS20E PoE (neutral without Lufft-Logo 8120.31N)			8120.31	
Technical data	Dimensions	length 180 mm, width 78 mm, depth 32 mm		
	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	-2050°C		
Input voltage 0-1V	Measurement range	0 1V		
	Accuracy	± 200uV ± 0.1% of measured value		
	Resolution	< 500uV		
Current measurement	Measurement range	2-wires: 4 20mA, 3-wires: 0 20mA		
	Accuracy	± 4uA ± 0.1% of measured value		
	Resolution	< 5uA		
	Resistance	approx. 50 Ohm		
Thermocouple K	Measurement range	-200°C 1200°C		
	Accuracy	\pm 1°C \pm 0.5% of measured value at -200°C 0°C \pm 1°C \pm 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 allowes 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 Smart-Graph 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					
Temperature/ Humidity	Digitale TFF20	24			
Further compatible sensors on request.					
Humidity: Flow: Differential	Transducers with display Flow transmitters				
pressure: Particle: CO ₂ :	Differential pressure transmitters Particle counters CO ₂ transmitters				

With up to 10 external sensors connectable per OPUS20E



Network with up to 200 channels

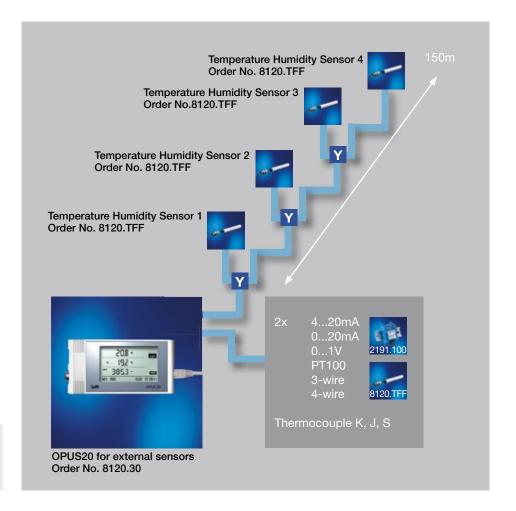
The OPUS20E is equipped with an analogue input that allows the connection of 2 sensors with voltage and current output, or rather PT100 temperature sensors in 3 and 4 wire technology.

At the same time up to 4 Lufft temperature/humidity sensors can be connected to the datalogger via a serial input.

Each fully equipped OPUS20E is a 10 channel datalogger that can record various data. It also allows data to be retrieved online and offline.

Lufft OPUS20E Configurations Examples

Lufft OPUS20E for	Order-No.				
Technical data					
Thermocouple J	Measurement range	-200°C 1,200°C			
	Accuracy	\pm 1°C \pm 0.5% of measured value at -200°C 0°C			
		\pm 1°C \pm 0.2% of measured value at 0°C 1,200°C			
	Resolution	< 0.2°C			
Thermocouple S	Measurement range	-50°C 1,700°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	Measurement range	-200°C 500°C			
	Accuracy	$\pm~0.2^{\circ}\text{C} \pm 0.1\%$ of measured value			
	Resolution	< 0.02°C			
Accessories	4 x LR6 AA Mignon		8120.SV1		
	Power supply adapter		8120.NT		
	Y Connector		8120.STY		
	Extension and/or connecting cable for digital sensor, 2m		8120.KAB2		
	Extension and/or connecting cable for digital sensor, 10m		8120.KAB10		
	Extension and/or connecting cable for digital sensor, 25m		8120.KAB25		
	Plug multipoint socket for analog sensortechnology access		8120.STE		
	Temperature/ humidity sensor (see page 24)		8120.TFF		
	High-precision Temperature/Humidity Sensor (see page 26)		8130.TFF		



With up to 10 channels per datalogger transfering data in realtime. Power supply via POE.