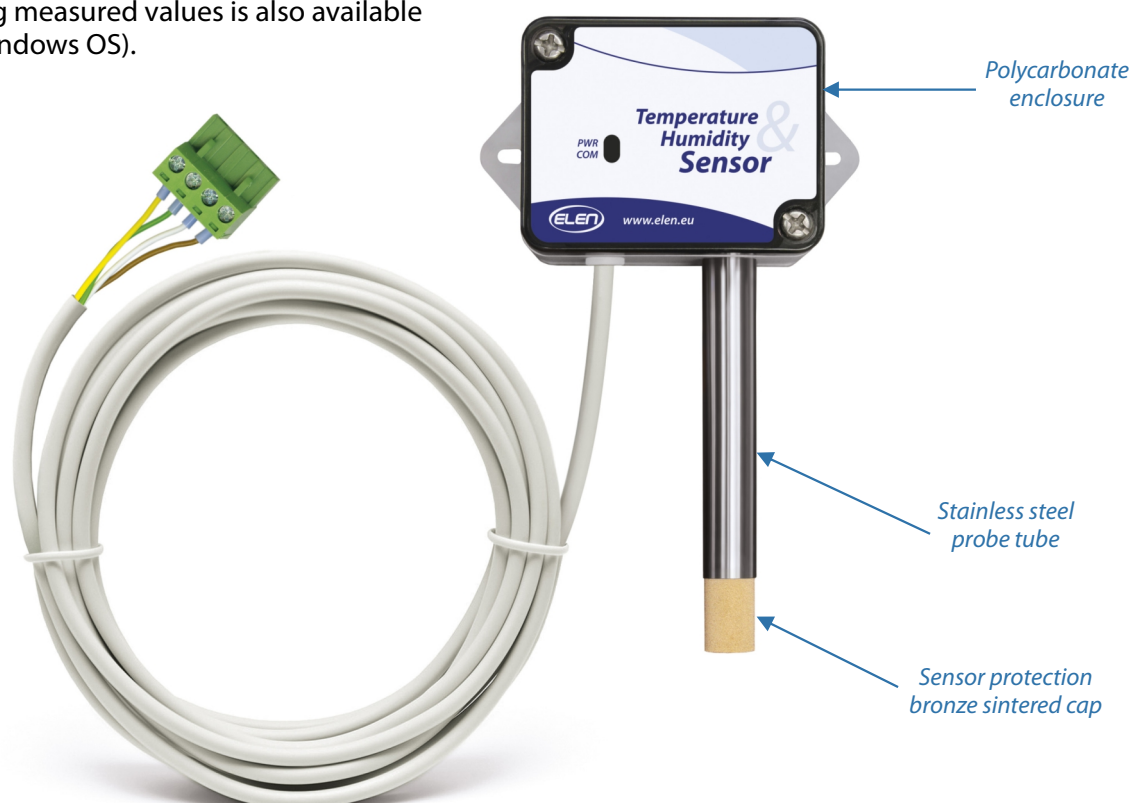


DATASHEET

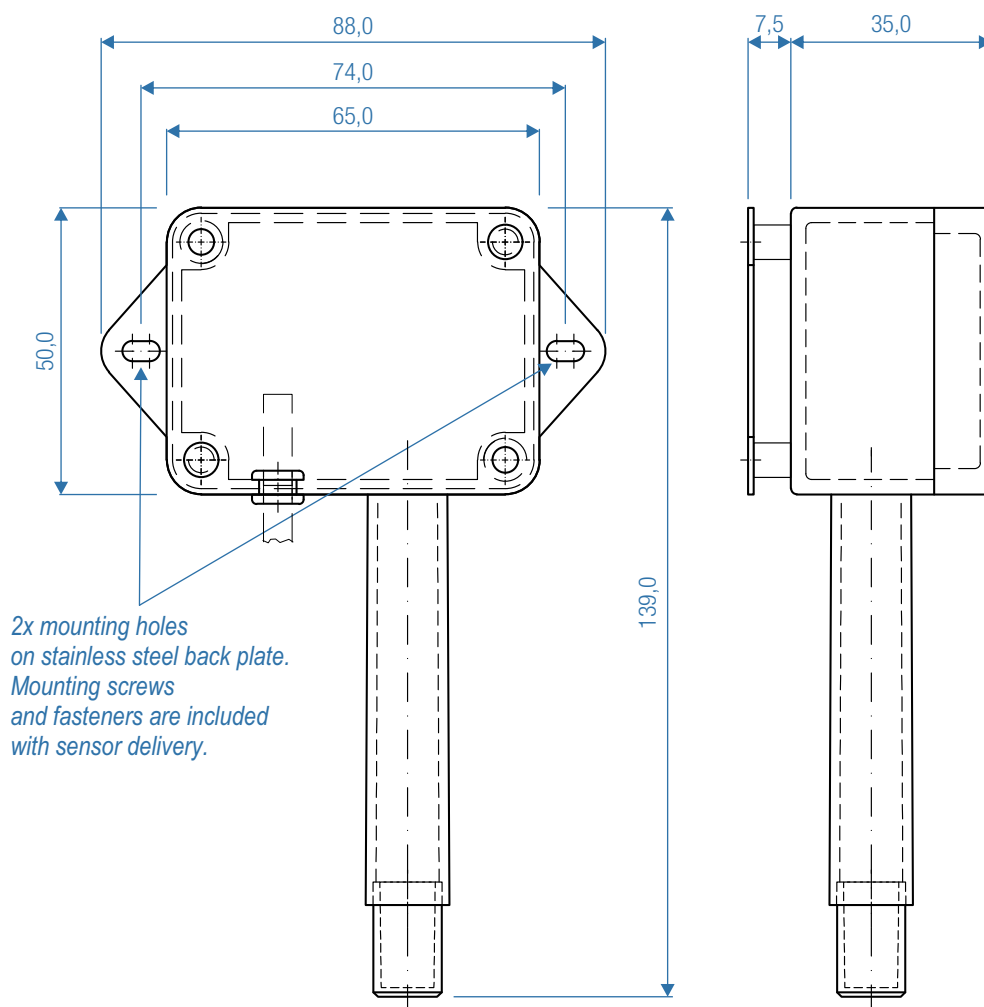
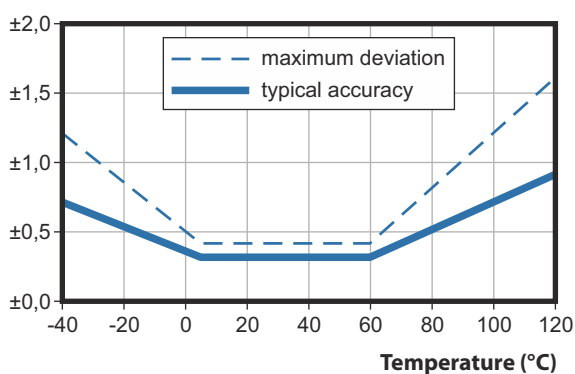
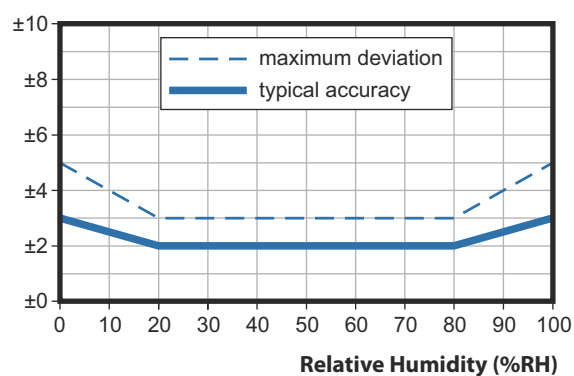
Product name	Temperature and Humidity Sensor	
Type / Model	THS SENSOR 54 12DC RS485	
Order Code	ZZ0609-3.20	Date of last revision: 31. 10. 2017

THS SENSOR 54 12DC RS485 is an electronic device for measuring air temperature and relative humidity. This sensor provides high precision measurement of real time actual values, which are transmitted into the master device (large-size display or computer) via RS485 serial line. PC software for logging and evaluating measured values is also available (under Windows OS).



Temperature and Humidity Sensor Technical Specifications

Temperature measuring range	-30°C ~ +70°C
Operating temperature	-30°C ~ +70°C
Temperature precision	±0,3°C typical, see graph No. 1 on page 2
Humidity measurement range	0% ~ 100%
Humidity precision	±2% RH typical, see graph No. 2 on page 2
Communication interface	RS485
Communication protocol	ELEN (communication protocol description available on request)
Power supply	9 ~ 24 VDC, 12VDC when powered from display
Class of protection	IP 54 transmitter box, IP 40 sensor, suitable for indoor use only
Dimensions	88 mm x 139 mm x 43 mm (see dimensional drawing on page 2)
Sensor type	Sensirion SHT21
Cable length	5 m by standard, (other cable length 0 – 150 m possible on request)

Dimensional Drawing (mm)**Graphs - Sensirion parameters** ΔT (°C)**Graph No. 1:** Accuracy for temperature in °C. ΔRH (%RH)**Graph No. 2:** Accuracy for relative humidity at 25°C.