



Be Right™



## Lufft WS502 Smart Weather Sensor

# de producto: 8375.2  
USD Precio: Contacto Hach Chile  
Disponibile

The WS502-UMB is a compact all-in-one weather sensor with measurement of temperature, relative humidity, air pressure, wind direction, wind speed and radiation. It is part of the WS product family of professional intelligent measuring sensors with a digital interface and an integrated design with ventilated radiation protection for various environmental applications. One external temperature or rain sensor is connectable.

### All-in-one housing concept & easy installation

All-in-one housing concept of a compact weather sensor combining several measurement parameters in one housing with only a single cable connection.

### Maintenance-free operation

Maintenance free operation as there are no moving parts that can wear out.

### Flexible interfaces and telegrams

SDI-12 and RS485 with supported protocols UMB-Binary, UMB-ASCII, Modbus-RTU, Modbus-ASCII, and XDR.

### Aspirated radiation shield

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## Especificaciones

*Parámetros medidos:	Air Temperature
	Relative Humidity
	Air Pressure
	Wind Direction
	Wind Speed
	Solar Radiation
Comunicación:	SDI-12 and RS485 with supported protocols
	UMB-Binary, UMB-ASCII, Modbus-RTU, Modbus-ASCII, XDR
Conexión de cable:	Open wires
Dimensiones:	Ø150 x 322 mm
Entradas analógicas:	1
Fuente de alimentación:	12 - 24 VDC
Grado de protección IP:	IP66

Humedad de operación:	0 - 100 %
Humedad relativa:	Accuracy: $\pm 2$ % RH Measuring range: 0 - 100 % RH Measurement technology: Capacitive
Interfaz:	RS485 2 wire Baud rate: 1200 - 38400 bit/s (Standard: 19200) or SDI-12
Longitud de cable:	10 m
Material carcasa:	Plastics (PC)
Peso:	# 1,5 kg
Presión de aire:	Accuracy: $\pm 0.5$ hPa (0 - +104 °F) or $\pm 0.5$ hPa (0 - +40 °C) Measuring range: 300 - 1200 hPa Measurement technology: MEMS capacitive
Radiación solar:	Accuracy: 5 % Measuring range: Maximum operational irradiance; 1400 W/m <sup>2</sup> Measurement technology: Si-photodiode, optoelectric Non-linearity: n/a Non-stability: n/a
Rango de temperatura de operación:	-50 - +60 °C
Temperatura del aire:	Accuracy: $\pm 0,2$ °C (-20 - +50 °C), otherwise $\pm 0,5$ °C (# -30 °C) Measuring range: -50 - +60 °C Measurement technology: NTC 0,1 °C (-20 °C - +50 °C), otherwise 0,2 °C