

# Data Sheet

## Spectrometer Module CAN Bus Module with Spectrometer Board

DOC 486 6000/XX-E-1.0-DS

### Article-No. 486 6000/XX

#### Properties

- Connection of the only optical sensor head with the analysis unit via the sensor head cable (integrates two fibre optic cables and a compressed air line).
- Measurement path length freely adjustable from 0.5 – 20 mm
- Automatic cleaning of the measurement path with compressed air or wiper
- Suitable for a wide temperature range (0 °C to +110 °C)
- Integrates pulse input
- Simple installation and high cost-efficiency
- ATEX certificate on request



The type plate is on the right side of the housing.



Earth the Spectrometer Module. This is the only way to ensure trouble-free measuring operation.



The earth connection is located on the left side of the housing.

Technical Data	
Power supply	24 VDC (18 – 28 VDC) via CAN-bus cable
Rated power	24 V x 2 A
Pulse input	Frequency (rising edge) or static <b>i</b> The pulse input is galvanically isolated from the system.
Compressed air connector	Quick connector for 4 mm PU-tube, 4 – 6 bar
Temperature range	0 °C to +40 °C
Weight	approx. 2.6 kg
Housing material	Die-cast aluminium, powder coated
Dimensions	303 x 200 x 93 mm (L x W x H)
IP code	IP65

Spectrometer unit	
Wavelength range	200 nm to 708 nm, resolution 2 nm
Measurand	UV/VIS spectra in the range 200 to 708 nm
Measurement principle	Spectral analysis
Measurement interval	Adjustable, min. 30 s
Light source	Xenon flash lamp
DualBeam (optional)	Reference beam via beam splitter with 5 % of the intensity

Sensor head ISA	Article-No. 461 6002 / 410 6012
Material	High grade steel (material number 1.4404) – Titanium optional
Cable length	2.5 m   6 m   10 m   other cable lengths on request
Temperature range	0 °C to +110 °C
Measurement gap	0.5 – 20 mm stepless adjustable Measurement gap = Measurement path
Weight (High grade steel)	1.5 kg
Ambient pressure	max. 6 bar <b>⚠</b> *

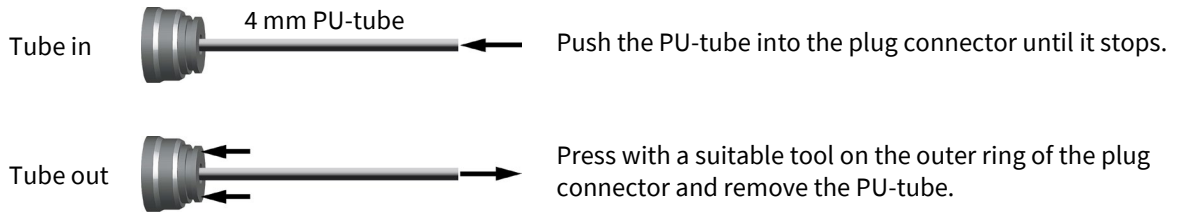
\* **⚠ Caution:** The sensor head is not suitable for environments with negative pressure or pressure shocks!

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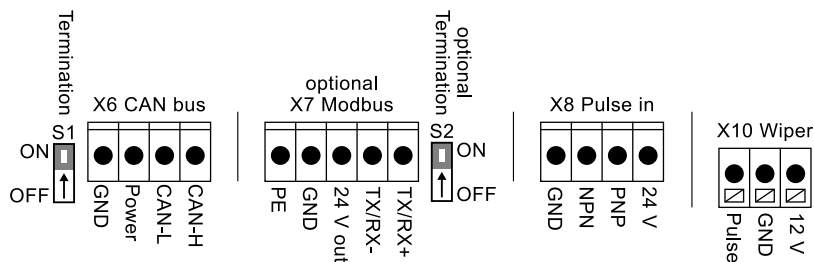


## Compressed air line connection

Quick connector for 4 mm PU-tube, 4 – 6 bar

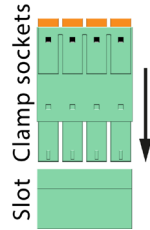


## Cable connections and termination slide switches

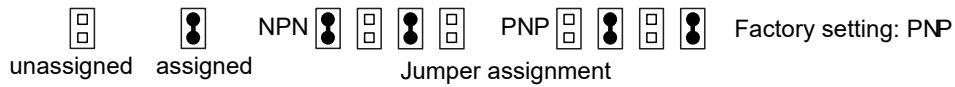


Slot X6, X7 and X8: The cables are connected to the slots by means of clamp sockets. Note that the slots lie flat, i.e. the clamp socket strips are plugged onto the slots from "above".

X 10: There are cable clamps on the slot ex works.



## Jumper slots of the pulse input



## Opening the housing

- ① Turn the housing bracket to the right.
  - ⚠ If necessary, use a suitable tool.
- ② Loosen the two cover screws (Torx T20).
- ③ Open the housing cover to the left.

