Datasheet water quality probe CAN-TU

NTU : NEPHELOMETRIC TURBIDITY
Optical technology for optimized measures

- IR optical sensor with optical fibre
- Range: 0 to 4,000 NTU or 0 – 4,500 mg/L
- Measuring range 0 to 200 mS/cm in 4 ranges
- Robust and waterproof (IP68)
- Ultra low-power consumption
- Digital output Modbus RS-485

Application :
- Urban wastewater treatment
- Industrial effluent tratment
- Surface water monitoring
- Sea water
- Drinking water

Optical technology :
The measure principle is based on IR nephelometry / 850 nm. The sensor can be calibrated with a formazine standard solution.
NTU sensor integrates a low-cost optical technology, with a very few maintenance and no consumables.

Digital communication :
The sensor connect to the loggers of the LOG V3 range on Modbus RS485 input
Resistant to interference: preamplifier integrated sensor and digital signal processing.
The optical sensor saves its calibration data for better measures management.

Integrated transmitter :
All calibration data, history, users and actions are handled directly in the NTU sensor and transmitted via a Modbus RS-485 connection.

Body:
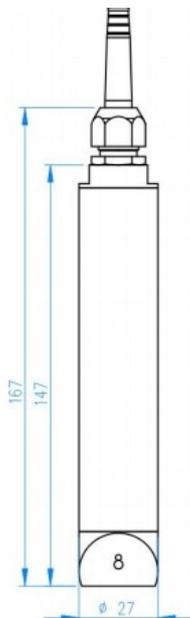Compact, rugged and light, PVC sensor allows a handheld or stationary installation.

iJiNUS CLAIRE GROUP | 25 ZA de Kervidanou 3, 29300 MELLAC, France | Ph : +33 2 98 09 03 30 / Fax : +33 2 98 96 29 01 www.ijinus.com / Email : info@ijinus.com | Ijinus, a compagny from the pole | claiRE CONNECT

K0V00045-ENB02 - 21/03/2023

Features

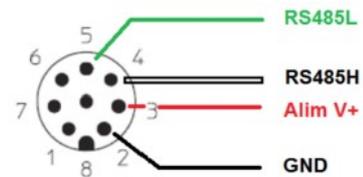|	
Measure principle	Diffuse IR at 90°
Conductivity measuring range	**0 to 4000 NTU in 5 ranges :** • **0 - 50 NTU** • **0 – 200 NTU** • **0 – 1000 NTU** • **0 – 4000 NTU** • **range AUTO**	**0-4500 mg/L** **Calibration :** Range 0-500 mg/L according to NF EN 872 Range >500 mg/l according to NF T 90 105 2
Resolution	0,1 to 1 NTU – mg/L
Accuracy	< 5% of the reading
Reponse time	< 5 s
Working temperature	0°C to + 50°C
Storage temperature	- 10°C to + 60°C
Interface signal	Modbus RS-485
Measure refreshing time	Maximum < 1 second
Sensor power-supply	5 to 12 volts
Electric consumption	Standby : 40 µA / Heating time : 100 mS/ current pulse : 500 mA Average RS485 (1 measure/seconde) : 820 µA

Sensor

Dimensions	Diameter : 27 mm ; Length : 170 mm
Weight	300g (sensor + 3m cable)
Housing	PVC, PMMA, Polyamide
Max pressure	5 bars
protection rate	IP68

Dimensions	**Wiring diagram**
	  Connector M12 8Pts male view

2	Black	GND
3	Red	Power supply V+
4	White	RS485H
5	Green	RS485L