



VAN LONDON
Est. 1961



"When Accuracy Matters"

TU8355

High turbidity and suspended solids probe. 4/20 mA and RS 485 output

This unique submersible probe has been designed to measure the high turbidity and suspended solids based on back scattering technology.

The measuring system consists of:

- Infrared light source
- Detector of scattered light by suspended particles
- Detector of the clean lens status
- 2-wire 4/20 mA analog output
- RS 485 digital output; nozzle for the autoclean by external pressured air

Through commands from the Personal Computer hyperterminal, the serial interface allows the measuring and check signals transmission, the scale selection, the analog or digital operating mode selection, the zero and sensitivity calibration. Thanks to its 4/20 mA isolated output, the probe can be directly connected to a PLC or data logger, and configured in FTU, g/l, % or other. The probe can be connected to controller BC7635 or BC7335, which provide the power, the measuring readout, 2 set-points, the alarm relay and the holding function for an external cleaning cycle. The most common applications of this probe include: water quality monitoring, municipal and industrial water treatment and aquaculture.

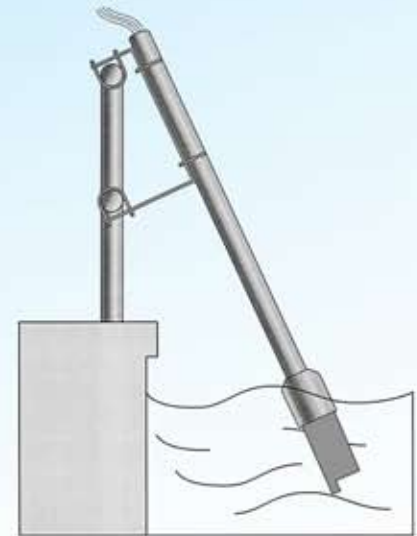
Principle of operation:

The turbidity and suspended solid measurement follows the back scattering method. A light beam is sent in the sample through an optical lens. The back scattered light by suspended particle is collected by the probe through a second lens, detected and converted in an electric signal proportional to the turbidity of the sample. The TU8355 probes uses an infrared light and the measuring is not affected by the color of the sample.



Specifications
Scale: 0/100 - 0/1000 - 0/10000 FTU
Sensitivity FTU: 70/130 %
Zero FTU: ± 10 FTU all scales
Power supply: 9/36 Vdc
Analog output: 4/20 mA isolated current Loop
Load: 600 Ω max. at 24 Vdc
Digital output: RS 485
Room temperature: -5/50 °C
Max. pressure: 1 Bar at 25 °C
Autoclean: by pressure air 3 bar max
Dimensions: L=165 mm total, D= 60 mm
Body: PVC
Cable: 10 m (100 m max.)
Protection: IP 68

The technical specifications may be changed without notice



Typical submersible installation

Van London-pHOenix Co.
6103 Glenmont Drive
Houston, Texas 77081
Local: (713) 772-6641
Toll Free: (800) 522-7920
Web: www.VL-PC.com
e-mail: info@VL-PC.com



Made in the USA

We Speak English, Spanish & Vietnamese