

ANDERSON NEGELE TURBIDITY SENSOR ITM-51

ITM-51 & ITM-51R

ITM-51

- Infrared Backscatter Principle
- Measuring Range > 2000 NTU (> 500 EBC)
- Operating Pressure Max 16 Bar
- Approvals: FDA; 3-A



Product description

From a diode, infrared light is radiated into the medium. The particles present in the medium reflect the incident light detected by the receiving diode (so-called backscatter method). The electronics calculate from the received signal, the relative turbidity of the medium.

The relative turbidity is given in NTU, or on the Nails calibration standard specified in "% TU" or in the EBC.

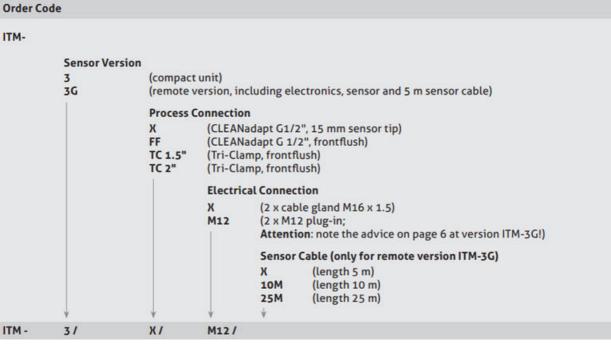
Suitable for pipe sizes as small as DN25 the versatility is broad and it has been used in many applications with great success. Not only does it help to optimise systems but the reduction in lost water, cleaning solutions and product allow it to quickly and effectively pay for itself, whilst continuing to streamline and save the end user money from the day that it is installed.

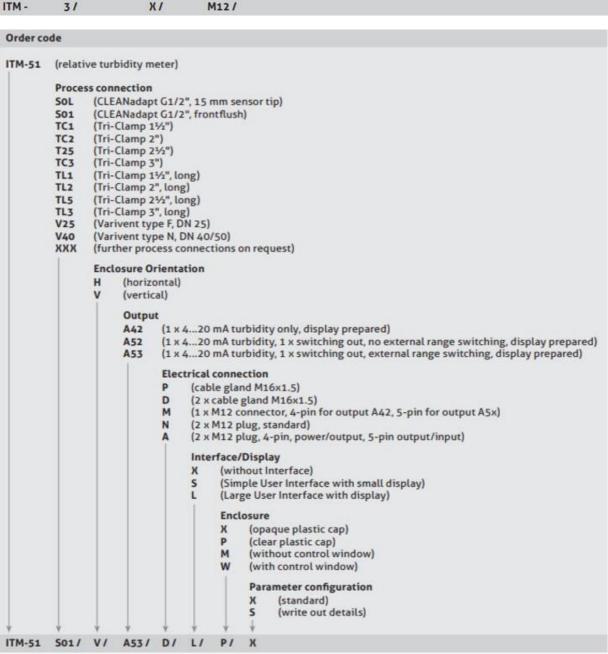
With a complete range of process connections and a remote version available there is a solution for nearly all applications where turbidity monitoring is required.

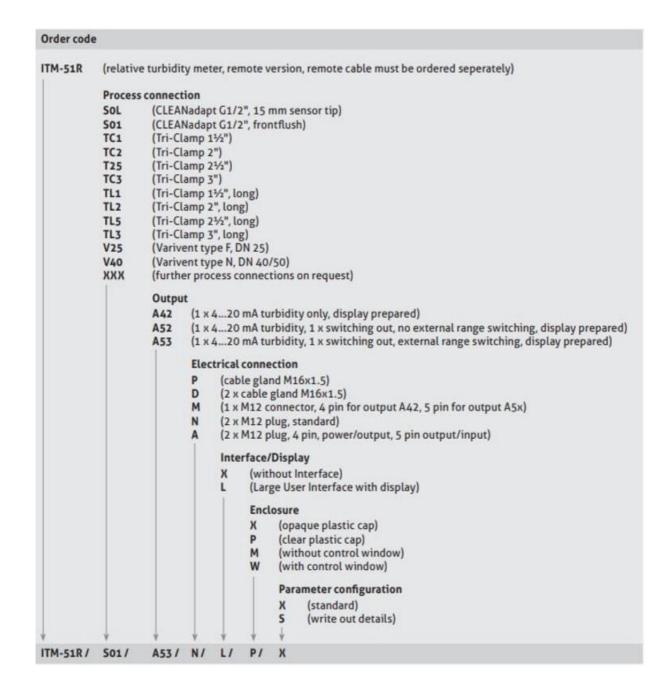
Application Examples:

- Patented Frontflush sensor
- Infrared back scatter technology
- Independent to reflexions at small diameters or electro-polished surfaces
- No colour dependency (wave length 860 nm)
- Sapphire glass optics
- IP69K
- High reproducibility: ≤ 1 % of full scale
- Switching output (switchpoint and hysteresis freely adjustable)
- CIP/SIP Cleaning up to 140°C for 30 minutes maximum
- FDA and 3A (3A Tri-Clamp only) Certified

Please refer to the images below for ordering information.







Specifications

Approvals	3-A, EHEDG, FDA
Area of application	Food
Cover material	Polycarbonate
Detector Materials	Sapphire
IP Class	IP67, IP69K
Material of connection	Stainless steel 316L
Material of sensor housing	Stainless steel 1.4308

Measurement Accuracy	+/-3% - 0-999NTU ; +/- 5% > 999NTU
Pressure Range Max	20
Pressure Range Min	-1
Response Time	750
Supply Voltage DC Max	32
Supply Voltage DC Min	18
Temperature ambient from	-10
Temperature ambient to	60
Temperature range of media from	-10
Temperature range of media to	130
Weight	750