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ANDERSON NEGELE - TURBIDITY SENSOR ITM-4

ITM-4



- 4-beam Alternating Light Method
- Measuring Range: 0…5000 NTU (0…1250 EBC)
- Operating Pressure Max 10 bar
- Approvals: FDA; 3-A

PRODUCT DESCRIPTION

The Anderson-Negele ITM-4 Meter is the ideal product for low turbid media, with the ability to read turbidity levels between 0-5000 NTU (0-1250 EBC), this turbidity sensor is designed to be highly accurate and lends itself to the brewing & beverage industry, water processing, dairy processing, pharmaceutical applications as well as many other industries that require an accurate quality control of their fluids and waste products.

The ITM-4 can be scaled to read as low as 0-5 NTU (0-1 EBC) for the lowest of turbid media and being a compact product needing no evaluation unit, installation is quick, non-intrusive and simple. The ITM-4 can begin optimising your system and saving you on waste products and line changes from the day that it is installed from, paying for itself within a surprising period of time and saving the customer on wastage costs effectively.

Conforming to FDA standards, the ITM-4 turbidity sensor is hygienic by design. Utilising PEEK for the optical block, sapphire crystal for the glass panes on the sensors and having fittings that are completely stainless steel in construction, the ITM-4 is versatile and can be used on pipes as small as DN 25. With use of the Tri-Clamp and hygienic thread connection, we can offer the ITM-4 with 3A Certification as well for pharmaceutical applications.

Utilising the “4 Beam Alternating Light” principal to measure, the ITM-4 is able to largely cancel out disturbing media such as air bubbles and the occurrence of solids in an application, due to the evaluation of multiple measurement cycles of transmitted and 90° scattered light. This differentiates the ITM-4 from its competitors that often struggle to deal with the sporadic occurrence of solids and bubbles in processes causing loss on downtime and potential waste.

Application Examples:

- Control of brewing processes.
- Fresh water control in the beverage industry.
- Water and waste water control in dairies.
- CIP/SIP Systems.
- Quality control.
- Separator monitoring.

Please refer to the image below for ordering information.

Order Code

ITM-4

Process Connection / Diameter

GG25	(diameter DN25; process connection dairy flange DN25 acc. to DIN11851)
GG40	(diameter DN40; process connection dairy flange DN40 acc. to DIN11851)
GG50	(diameter DN50; process connection dairy flange DN50 acc. to DIN11851)
GG65	(diameter DN65; process connection dairy flange DN65 acc. to DIN11851)
GG80	(diameter DN80; process connection dairy flange DN80 acc. to DIN11851)
GG100	(diameter DN100; process connection dairy flange DN100 acc. to DIN11851)
HH25	(diameter DN25; process connection hygienic thread DN25 acc. to DIN11864-1)
HH40	(diameter DN40; process connection hygienic thread DN40 acc. to DIN11864-1)
HH50	(diameter DN50; process connection hygienic thread DN50 acc. to DIN11864-1)
HH65	(diameter DN65; process connection hygienic thread DN65 acc. to DIN11864-1)
HH80	(diameter DN80; process connection hygienic thread DN80 acc. to DIN11864-1)
HH100	(diameter DN100; process connection hygienic thread DN100 acc. to DIN11864-1)
TC25	(diameter DN25; process connection Tri-Clamp)
TC40	(diameter DN40; process connection Tri-Clamp)
TC50	(diameter DN50; process connection Tri-Clamp)
TC65	(diameter DN65; process connection Tri-Clamp)
TC80	(diameter DN80; process connection Tri-Clamp)
TC100	(diameter DN100; process connection Tri-Clamp
TC1"	(diameter ASME 1"; process connection Tri-Clamp)
TC1,5"	(diameter ASME 1,5"; process connection Tri-Clamp)
TC2"	(diameter ASME 2"; process connection Tri-Clamp)
TC2,5"	(diameter ASME 2,5"; process connection Tri-Clamp)
TC3"	(diameter ASME 3"; process connection Tri-Clamp)
TC4"	(diameter ASME 4"; process connection Tri-Clamp)
DF25	(diameter DN25; process connection DIN flange acc. to DIN2632/33)
DF40	(diameter DN40; process connection DIN flange acc. to DIN2632/33)
DF50	(diameter DN50; process connection DIN flange acc. to DIN2632/33)
DF65	(diameter DN65; process connection DIN flange acc. to DIN2632/33)
DF80	(diameter DN80; process connection DIN flange acc. to DIN2632/33)
DF100	(diameter DN100; process connection DIN flange acc. to DIN2632/33)

Electrical Connection

X	(2 x cable gland M16 x 1,5)
M12	(2 x M12 plug; 1.4305)

ITM-4 / GG65 / M12

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TECHNICAL DATA

Approvals	3-A, FDA
Area of apllication	Food
IP class	IP67, IP69K
Material cover	PMMA
Material detector	Sapphire
Material of connection	Stainless steel 316L
Material of seals	EPDM food approved
Material of sensor housing	Stainless steel 1.4305
Pressure resistance max	10 bar
Supply voltage dc max	36 V DC
Supply voltage dc min	18 V DC
Temperature ambient from	-10 °C
Temperature ambient to	60 °C
Temperature of media from	0 °C
Temperature of media to	100 °C