

Converter 156

Converter for Concentration,
Color or Turbidity Measurement



- Inline real-time process monitoring
- 3-digit LED display
- 0/4-20 mA-output
- 2 independent alarm setpoints
- Reliable cost effective measurements
- Compact dimensions

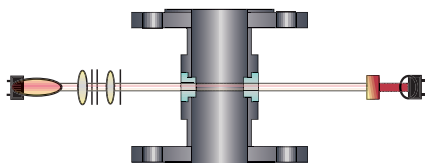
The 156 converter provides continuous inline, real-time measurement and control of concentrations, color changes or turbidity in a variety of industrial processes.

With four fixed measuring ranges and one variable measuring range, the 156 can be set to match your specific process parameters. The 3-digit LED indicator displays the percentage of the selected measuring range.

Two independent setpoints and one mA output are provided by the converter for alarms and real-time process monitoring when wired to the plant's process control system.

An additional failsafe relay output is built in for remote sensing of lamp or power failure.

Combined with a high-precision single channel absorption AF56 sensor, or AS56 probe, the 156 converter is a cost-saving measuring system that provides reliable measurements throughout your process.



Sensor AF56



Sensor AS56

Technical Data

Converter 156



Housing:

19"-version for rack mounting (front IP40 / rear IP20), 3 HE / 21 TE

Dimensions:

106 x 116 x 190 mm deep
(4.18 x 4.57 x 7.49 inch deep)

Weight:

2.0 kg

Display:

1 digital display, 3-digits, LED, height: 7 mm
1 LED (red): power on
1 LED (green): zero
5 LED (yellow): range
2 LED (red): alarm I and II
1 LED (red): lamp or system failure

Measuring ranges:

0 - 1 CU, 0 - 2 CU, 0 - 3 CU, 0 - 4 CU, variable 0 - 0.5 ... 4 CU
(factory set 0 - 0.5 CU)

Resolution:

< ± 0.5 % of respective measuring range

Repeatability:

< ± 1 % of respective measuring range

Linearity:

specific to application, < ± 2 % of respective measuring range

Response time:

1 second

Power supply (fixed):

115 / 230 V AC selectable or 24 V AC / DC

Power consumption:

30 VA

Cable lengths AF56:

standard: 5, 10, 20, 35, 50 m, (16, 33, 66, 115, 164 ft.)
maximum: 250 m (820 ft.)

Cable lengths AS56:

2, 3, 5, 10, 15, 20, ... 45 or 50 m,
(7, 10, 16, 33, 49, 66, ... 148 or 164 ft.)

mA-output:

0/4 - 20 mA (load: 0 - 500 Ohm)
galvanically isolated (> 500 V DC)

Alarm output:

2 independent adjustable SPDT contacts

Failsafe:

1 SPDT contact to alarm in case of lamp or system failure (active)

Ambient temperature:

operation: 0 °C up to +50 °C, (+32 °F up to +122 °F)
(no direct light)
transport: -20 °C up to +70 °C, (-4 °F up to +158 °F)

Requirements:

EN 61010-1 / 2002-08 / class 1

Certificates:

ISO 9001:2000, GS, CE

Use with sensors AF56-N, AF56-F, AS56-N or AS56-F!

Options



B19-21 Housing
plastic, IP66 (1 converter)



B19-42 Housing
plastic, IP66 (2 converters)



S19-42 Housing
stainless steel, IP65 (2 converters)

W19 Mounting assembly
for wall-mounting