



DAMEN FLOWMETER MID63C/IFS4005

GENERAL

The magnetic inductive flowmeter measures the volume flowrate of electrically conductive liquids and slurries. The flowmeter consists of a primary flowhead MID 63C for pipe ID's >350 mm with signal converter TIV-50 and for pipe ID's <350 mm a primary flowhead IFS4005 with flow amplifier SC-150.

The primary flowhead is a stainless steel pipe with fixed rubber liner and built up coils in a watertight housing IP 65. The measuring principle is based on a conductive medium that passes through a magnetic field. The "wetted" electrodes in the measuring tube pick up the induced voltage signal. The signal converter SC-150 or flow amplifier TIV50, converts the voltage signal into a standard analogue output signal 4 to 20 mA.

FEATURES:

- Measuring tube is generally matched to the internal diameter of the pipeline.
- The flowrate measurement is independent of pressure, density and temperature.
- Each flow meter volumetrically "wet" calibrated in accordance to official standards.
- Corrosion resistance to most slurries with high coarse-grained solids.
- The signal converter SC-150 and flow amplifier TIV50 are suitable for wall mounting.
- Flow amplifier TIV50 has only analogue indicator, reading 0 to 100%.

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TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

PRIMARY FLOWHEAD

- Primary Flowhead, protection class IP 65, typical application in dredging industry.
- Meter size DN 50 - 3000, connecting flanges in accordance to DIN 2501 or ANSI.
- Primary Flowhead, pressure rating PN 10/16, protection class IP-65. (NEMA – 6).
- Minimum conductance liquid $>5\mu\text{S}/\text{cm}$ (water $\geq 20\mu\text{S}/\text{cm}$).
- Liner in measuring tube is soft-rubber approx. 35 mm, others on request.
- Weight Primary Flowhead depending DN-size (DN 500-weight approx. 240 kg).
- Power supplies Primary Flowhead, 100 - 240 Vac, 50/60 Hz.
- Operation temperature -25°C to $+50^{\circ}\text{C}$.

FLOW AMPLIFIER TIV-50 AND FLOW CONVERTER SC-150

- Power supply flow amplifier TIV-50, 110 or 230Vac $\pm 10\%$, 50/60 Hz, consumption 20 VA.
- Power supplies Signal Converter SC-150, 100 to 240 Vac 50/60 Hz, consumption 25 VA.
- Standard measuring range 0 to 10 m/s = 4 to 20 mA.
- Accuracy flow measuring system 0.5 % of measure value.
- Flow amplifier TIV-50, in field housing IP-65, die-cast aluminium painted, weight 15 kg.
- Operation temperature -25°C to $+60^{\circ}\text{C}$.

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DAMEN DREDGING EQUIPMENT

Member of the DAMEN SHIPYARDS GROUP



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