

# FIBERWRAP™

The distributed acoustic sensing-based non-intrusive flow meter

## Specifications

Maximum number of metering zones	25 (pipe size dependent)
Installation type	Non-intrusive
Flow regime	Pressurised turbulent flow
Flow types	Liquid, bubbly liquid, slurry, dense slurry, gas
Operating temperature for sensing cable	Min: -45°C max 150°C
Pipe sensing length	Preferably several pipe diameters
Maximum cable length per iDAS	15 km
Compatible pipe geometries	Circular & non-circular bends (including segmented bends, 45°, 90°) Tees Reducers (including articulated, continuous stubs)
Compatible pipe materials	Steel, HDPE, PVC, Rubber
Pipe material thickness	Min. schedule 10 to max. schedule 160
Update rate	> 5s
Output	CSV, data transfer via OPC method
Output units	Flow speed (m/s) Volumetric flow rate (m <sup>3</sup> /s)* Sound speed (m/s)**
Bi-directional measurement	Yes
Pipe diameter range	Min: 1" max: 50"
Minimum measurable velocity	0.5 m/s
Measurement accuracy (standard)	+/- 5% of reading
Measurement accuracy (calibrated)	+/- 1% of reading
Repeatability	+/- 0.5%

\* Flow rates can be displayed in various units, the available options are: L/min, L/s, ML/day, m<sup>3</sup>/hr, m<sup>3</sup>/s, BPD, MCFD, GPD, kBPD

\*\* Flow phase trending

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