DDM
sensor solutions

Flow Computer

VCAx Series

Automatic matching with flow sensor

Real-time data processing

Up to 10 custom fluid curves selectable

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Functional description

The smart VCAx flow computer is designed for harsh environment. It is best choice for reliable operation at the demanding conditions of vehicle road testing. Due to the extremly compact housing, it simply fits into the engine compartment where space is limited.

The automatic flow sensor identification ensures the flow computer is immediately ready to measure after connected to any VCT series flow meter (Hot-plug-capable). Up to 10 custom fluid curves (viscosity vs. temperature) can be stored for viscosity correction. The actual fluid to be measured can be selected wireless by means of an RFID-Tag. Both flow meter frequency and media temperature are precisely measured. A linearised and viscosity-corrected flow rate analoge output is generated in real time. TEDS data memories enable automatic set up of data acquisition systems connected. This significantly simplifies the configuration of the measurement chain.

Input signals

Flow meter pulses	2.5 kHz TTL max.
Media temperature	Single Wire Bus

Output signal
(linearised & viscosity corrected)

Flow rate (custom scaled)	0–20 mA; 4–20 mA

Flow rate metrological properties

Accuracy	± 0.1 %
Response time	1 ms
Low flow cut off	0.6 to 5 s
Adjustable filtering	0 to 5 s

Custom fluid characteristics
Up to 10 fluid curves, 29 points each
(RFID-Tag selectable)

Supply voltage
9 to 32 V DC reverse polarity protected

Power consumption
≤ 100 mA

Degree of protection
IP 67

Operating temperature range
– 40 °C to +110 °C

Electrical connections
LEMO/Yamaichi size 0

EMC
EN 55011
EN 61000-4-2 bis EN 61000-4-6

TEDS
IEEE 1451.4:2004

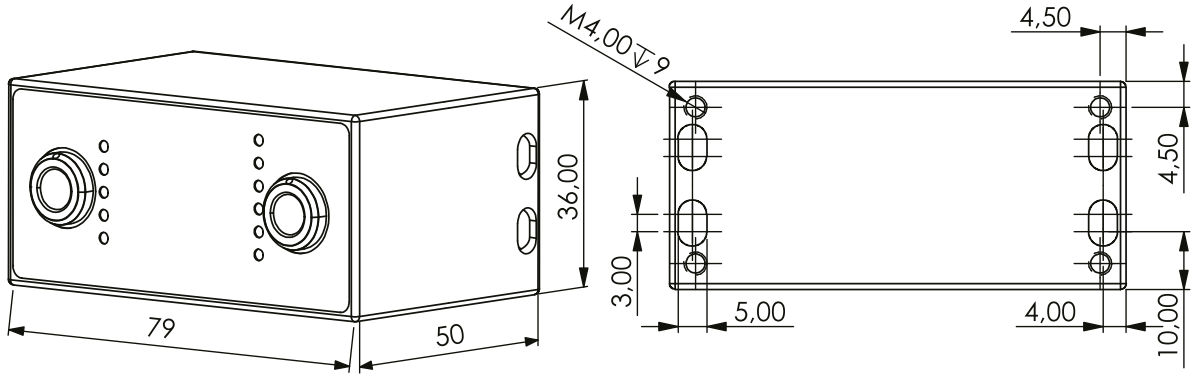
Calibration certificate
included flow rate
analog output

Housing material
Anodised aluminium

Weight
150 g, app.

Accessories
Mating connector for Flow and analog output, RFID Tag, optional Accessories see separat data sheet

Dimensions (mm)



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