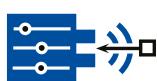


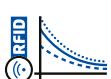
Flow Computer VCA-T Series



Automatic matching
with flow sensor



Real-time data processing



Up to 10 custom fluid curves
selectable

Functional description

The smart VCA-T 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 extremely 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 analog 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		Degree of protection
Flow meter pulses	2.5 kHz TTL max.	IP 67
Media temperature	Single Wire Bus	
Output signals		Operating temperature range
(linearised & viscosity corrected)		-40°C to +125°C
Flow rate (custom scaled)	0 to 10 V	
Media temperature (-50°C to +150°C)	0 to 10 V	
Flow rate metrological properties		Electrical connections
Accuracy	± 0.1 %	LEMO/Yamaichi size 0
Response time	1 ms	
Low flow cut off	0.6 to 5 s	
Adjustable filtering	0 to 5 s	
Temperature properties		EMC
Resolution	0.25 °C	EN 55011
Sampling rate	0.5 s	EN 61000-4-2 bis EN 61000-4-6
Custom fluid characteristics		TEDS
Up to 10 fluid curves, 29 points each (RFID-Tag selectable)		IEEE 1451.4:2004
Supply voltage		Calibration certificate
9 to 32 V DC reverse polarity protected		included for both flow rate and media temperature analog outputs
Power consumption		Housing material
≤ 60 mA		Anodised aluminium
Weight		Weight
		170 g, app.
Accessories		Accessories
		Mating connectors for Flow and Temperature, analog output, RFID Tag, optional Accessories see separat data sheet

Dimensions (mm)

