

VLT NEW RANGE HIGH LEVEL EMISSION AND DIESEL SMOKE TESTERS



Quality and user friendly

EMISSION TESTER part of VLT 4816/TS and/or VLT 4836/TS	
Rated Operating Conditions	
power supply	230 V AC, -15 % / +10 % 50 HZ, -20 % / +20 %
power consumption	max. 350 W
ambient temperature	+5 ~ +40 °C
storage temperature	0 ~ +60 °C
relative humidity	up to 90 %
nominal sample flow	180 l/h
max. response time	12 s
warm-up time	max. 10 min.
Ranges	
carbon monoxide (CO)	0 ~ 10 % vol
carbon dioxide (CO ₂)	0 ~ 20 % vol
hydrocarbons (HC)	0 ~ 10000 ppm vol
oxygen (O ₂)	0 ~ 25 % vol
lambda value	0.5 ~ 2.0
rpm	300 ~ 10000 min ⁻¹
oil temperature	0 ~ 150 °C
voltmeter	0 ~ 2, 0 ~ 10, 0 ~ 100 V DC
lambda sensor	0 ~ 2, 0 ~ 5 V DC
Resolution	
carbon monoxide (CO)	0.01 % vol
carbon dioxide (CO ₂)	0.1 % vol
hydrocarbons	1 ppm vol
oxygen (O ₂)	0.01 % vol up to 4 % vol 0.1 % vol above 4 % vol
lambda value	0.001
rpm	10 min ⁻¹
oil temperature	1 °C
voltmeter	0.001, 0.01, 0.1 V DC
lambda sensor	0.001 V DC

Dimensions of complete unit (w x d x h):
Shipping dimensions (w x d x h):
Shipping weight (unit with opacity meter):
Shipping weight (unit without opacity meter):

MODEL	DESCRIPTION
VLT 4816/TS - (Emission only)	VLT New developed Emission Tester, with 15" Touch Screen Monitor. standard including Four-gas Emission Tester - CO - HC - CO ₂ - and O ₂ , Lambda measuring by factor calculation.
VLT 4818/TS - (Diesel Smoke only)	VLT New developed Diesel Smoke Tester, with 15" Touch Screen Monitor. Diesel Smoke Tester module - Opacity type.
VLT 4826/TS - (Emission - Diesel Smoke)	VLT New developed Emission Tester. with 15" Touch Screen Monitor. This combination Tester, standard including Four-gas Emission Tester - CO - HC - CO ₂ - and O ₂ , Lambda measuring by factor calculation. Diesel Smoke Tester module - Opacity type.
VLT 4836/TS - (Emission - Diesel Smoke - Universal RPM device)	VLT New developed Emission Tester. with 15" Touch Screen Monitor. This combination Tester, standard including Four-gas Emission Tester - CO - HC - CO ₂ - and O ₂ , Lambda measuring by factor calculation. Diesel Smoke Tester module - Opacity type - Universal RPM Meter including Magnetic Detector.
VLT 4816/NOx	VLT - NOx extension to all VLT 48x6 Emission Testers
VLT 4816/RPM	VLT - RPM extension to all VLT 4816 and VLT 4826 Emission - Diesel Smoke Testers

Basic VLT 48x6/TS range of Emission and/or Diesel Smoke Testers. This range has as basis the well proven VLT MPU Embedded Controller with Touch Screen Monitor. Designed for high production in busy work conditions around the world. Has standard RS 232 for connection to PC or via TCP/IP to network environment. Or straight forward its own printer can be connected. Service and calibration program via notebook or PC. Very robust and durable steel trolley, epoxy coated on strong large wheels. At special request available with standard no Touch Screen Monitor

OPACITY METER (Diesel Smoke) VLT 4818/TS, part of VLT 4826/TS and/or VLT 4836/TS	
Rated Operating Conditions	
power supply	240 V AC, -10 % / +6 % 50 HZ, -20 % / +20 %
power consumption	max. 360 W
ambient temperature	+0 ~ +40 °C
relative humidity	up to 90 %
weight	22 kg
Ranges	
opacity	0 ~ 99 % 0 ~ 9.99 m ⁻¹
rpm	300 ~ 10000 min ⁻¹
oil temperature	0 ~ 150 °C
smoke chamber temperature	0 ~ 150 °C
Resolution	
opacity	0.1 % 0.01 %
rpm	10 min ⁻¹
oil temperature	1 °C
smoke chamber temperature	1 °C

RPM / OIL TEMPERATURE METER part of VLT 4836/TS or as option VLT 4816/RPM for VLT 4816/TS, VLT 4818/TS and VLT 4826/TS	
operating temperature	0 ~ 40 °C
oil temperature measuring range	20 ~ 200 °C
rpm sensor measuring range	300 ~ 9990 rpm
rpm measuring resolution	10 rpm

750 x 770 x 1220 mm
850 x 920 x 1440 mm
224 kg
202 kg

VLT DIESEL SMOKE TESTER VLT 4590

With the Diesel Smoke Tester VLT 4590, VLT brings a very reliable product for high volume use not only in busy Vehicle Testing Stations, but also for repair workshops. They can even be used for heavy diesel engines in trucks and buses. Our units need minimum maintenance; the measuring chamber is heated up to approx. 100 °C. This will give comparable test results.



Technical Specifications VLT 4590:

MODEL	VLT 4590	
Stand-alone	yes	
Measuring	ranges	resolution
Capacity	0 - 99 HSU	1 HSU
	0 - 9.99 M-1	0.01 M-1
RPM	0 - 7500 1/min	10 1/min
Oil temperature	0 - 150 °C	1 °C
Power supply	voltage AC 230 V -10% + 15% frequency 50 Hz +/- 5%	
Heatup power	330 Watt max.	
Standby power	10 Watt	
Measuring chamber	effective length 430 mm	
Principle	partial flow	
Chamber temperature	100 °C +/- 5 °C	
Material	aluminium	
Dimensions	750 x 500 x 620 mm	
CPU - Display unit	display: red LED's	
Dimensions display unit	400 x 340 x 185 mm	
Weight approx.	45 kg total	
Probe and sensors		
Piezo clamp	ø6 mm	
Optional piezo clamp	ø 4.5 - 6.35 - 8 mm	
Oil temperature probe	4 mtr length	
Exhaust probe	3.5 mtr; ø13 mm optional 5 mtr; ø19 mm	
Test modes	continuous mode / graphic mode	
Printer	40 column thermic	



Van Leeuwen Test Systems B.V.

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