

Technical Specification

FOR

SARSYS SFTT Volkswagen Transporter CFME

Continuous Friction Measuring Equipment (CFME) Technical Specification

Host Vehicle Description	
Host vehicle model	Volkswagen Transporter T6
Engine output	150HP
Engine type	Diesel
No of Cylinders	4
Engine displacement	1,968 cm ³
Fuel Type	Diesel
Drive	Front wheels
Emission Standard	EURO 6
Steering Wheel Servo	Standard
ABS (ABS – Anti-lock Braking System)	Standard
EDB (EDB – Electronic Brake-pressure Distribution)	Standard
ESP (ESP – Electronic Stability Program)	Standard
Automatic Cruise control	Standard
Driver's seat height and depth adjustable	Standard
Steering wheel height and depth adjustable	Standard
Power Windows	Standard
Climate control	Standard
Vehicle body color (Standard)	White
Optional vehicle color: any color including airport yellow	Optional
LED Roof bar	Standard

Continuous Friction Measuring Equipment (CFME) Description	
Measuring system type	SARSYS CFME
Measuring principle	Fixed Slip
Measuring wheel	No: 1
Reference wheel(s)	No: 1
Measuring wheel tire size:	4.00x8
Compatible with following measuring tire types:	
	Trelleborg T520
	Trelleborg T49
	ASTM E1551

Measuring wheel fitted to	Transmission arm mounted on vehicle Chassis
Rear axle type	Original VW
Free wheel between reference wheel and measuring wheel	Standard
Connection type between freewheel hub and measuring wheel	Chains
Slip ratio	12%
Friction measuring method	Torque on connection chains
Friction measuring sensor	Load cell
Means of movement generation of measuring wheel transmission arm	Load cell
Vertical load control	Hydraulics
Vertical load measuring	Load cell
Distance and speed measuring method	Pulse sensor on reference wheel axle
Inspection shaft and hatch for friction measuring system reachable from the host vehicles boot	Standard
Corrosion prevention on inspection shaft and hatch:	
<ul style="list-style-type: none"> • Zink precoating 	Standard
<ul style="list-style-type: none"> • Powder coating 	Standard
Suspension type	VW Original Heavy duty
Measuring wheel ground clearance when elevated (transport mode)	80 mm

Presentation Computer (PPC)	
Type	Semirobust Panel PC
Screen size	10.4"
Operating system	Windows 10
Operator Software	SARSYS NG
Processor:	Onboard Intel Atom D525 1.8 GHz Dual Core CPU
RAM	Onboard 1GB SDRAM +One SODIMM Supports up to 3 GB
Hard Disc	SSD 120GB
Brightness	500 NIT (cd/m2)
Resolution	1024x768 px XGA
Screen	10.4" 4:3 XGA TFT
Chipset	Intel ICH8-M
I/O Chipset	Winbond W83627DHG
Network	WiFi 802.11 b/g
Operating Temp	0 to 40°C
Storage Temp	-20 to 75°C
Operating Software Language	
Operating software language	English

Operating language in onther language than English	Optional
Data collection	
Beckhoff Embedded PC Series CX5100 or equivalent	

Optional CFME Equipment	
GPRS	
GPS	
Surface and ambient air temp sensor	
Follow Me Roofbar	
Repainting to airport yellow or other non standard colors	
Black paint with foiled yellow checkers	

Optional Self Watering System	
Water film distributed in front of measuring wheel	Standard
Water film thickness	1 mm
Water film beam	70 mm
Water tank size	830l
Max continous measuring distance (ca)	11,500m
Tank material	Stainless steel
Water pump type	Electric
Water distribution measuring type	Water flow
Waterdistribution control and speed adjustment	Automatic
Water filling connectors	Cam Lock
Water evacuation valve	Standard
Water overflow protection pipe	Standard

Features	
Standard Measuring Report in PDF	Standard
Measuring data excel enabled	Standard
Free wheel, disconnecting measuring wheel from reference wheels when system is idle	Standard
Self watering system	Optional
Data transmission via radio link	Optional
GPS positioning of vehicle and measuring points (10m averages)	Optional
Measuring Speed	20 – 120 km / h
Standard Measuring Speed(s)	65 and 96 km/h
Ground and ambient air temperature displayed in real time and in measuring report	Optional

Measuring qualifications

Equipment is Approved to, but not limited to, measuring according to the following standards:	
Operational friction measuring	ICAO Annex 14
	SCAA
	FAA AC 150.5200
Functional friction measuring	
	ICAO Annex 14
	FAA AC 150.5320
	ASTM 2340
	ETL 02-14

Standard Accessories
Calibration equipment
USB Stick
Standard Tool Kit

CE Approval	
The product is in conformity with the provisions of the following EC-directives and normative documents:	
Machinery Directive	2006/42/EC
Low Volt Directive	2006/95/EC
Electro Magnetic Compatibility (Modular approach ¹)	2004/108/EC

Documentation		
Vehicle and friction measuring equipment spare parts catalogue	English	Standard
	Other languages	Optional
Workshop drawings of vehicle components and friction measuring equipment on a USB	English	Standard
	Other languages	Optional
Vehicle and friction measuring equipment Operating and Maintenance manual on USB	English	Standard
	Other languages	Optional

Training		
Electro, hydraulic and automatic components maintenance training.		Optional
Calibration Training	In Sweden	Standard
	At Customer	Optional
Operational training	In Sweden	Standard
	At Customer	Optional

¹ Electrical components assembled according to the manufacturer's instructions.

Warranty		
Vehicle Warranty	12 months	Standard
	24 months	Optional
CFME warranty	12 months	Standard
	24 months	Optional