

## Contamination Test Module – Fluid Analyzer CTM-FA

### Description

The Contamination Test Module CTM is a module system designed to analyze the technical cleanliness of components. The solid particle contamination is washed off the surface of the component in a wet sampling process. The fluid is analyzed with the CTM Fluid Analyzer using a particle counter according to ISO 16232 size classifications.

The CTM-FA extraction module includes the fluid treatment necessary for this.

### Applications

- Automotive and supplier industry
- Gearbox and engine builders
- Mobile hydraulics
- Production of hydraulic components

### Advantages

- Quick and instant analysis of technical cleanliness
- Suitable for production-related usage since system is enclosed
- Saves the high laboratory costs for cleanliness analysis
- Reduction in costs as a result of fewer production failures
- Identification and elimination of weak spots in processes
- Optimization of internal and external processes
- Customized documentation of the technical cleanliness of components

### Technical Details

General specifications	
Compressed air supply (provided by customer)	Air pressure: 4 to 6 bar Air flow rate: 60 l/min (+/- 10 %)
Compressed air conditioning (provided by the customer)	Dry and prefiltered to 5 µm
Compressed air connection	Nipple DN 7.2
Test fluid storage tank	5 litres
Nominal flow	≈ 2 l/min
Built-in drip tray	> 5 litres with discharge
Dimensions (Height x Width x Depth)	0.86 m x 0.50 m x 0.55 m
Housing material	S235JR powder coated
Coupling connection	Quick release coupling
Ambient temperature	15 to 28 °C
Permitted temperature of medium	10 to 40 °C
Weight when empty	≈ 90 kg
Protection class to DIN 40050	IP 54
General specifications	
Supply voltage	100 to 240 V AC (according to order)
Power consumption	80 watts
Data interface for CTM-SC	Bus communication (RJ45)
Data format	AQDEF (Advanced Quality Data Exchange Format) The data interface is certified by Q-DAS.
Sensor data	
Self diagnostics	Continuous
Measured variables	Particle counts based on ISO 16232
Seal material	NBR

## Model code

CTM FA 10 8 0 - M - Z / -

### Product

CTM = Contamination Test Module

### Module

FA = Fluid Analyzer

### Series

10 = standard

### Contamination coding

8 = based on ISO 16232 /  
D 25-50 µm, E 50-100 µm, F 100-150 µm,  
G 150-200 µm, H 200-400 µm, I 400-600 µm,  
J 600-1000µm, K\* 1000-1500 µm, L\* 1500-2000 µm,  
M\* 2000-2500 µm, N\* >2500 µm

### Analysis fluid

0 = solvent A III class  
(flashpoint > 60 °C, lower explosive limit  
> 0.6 Vol. %)

### Supply voltage

K = 120 V AC / 60 Hz / 1 phase USA / Canada  
M = 230 V AC / 50 Hz / 1 phase Europe  
N = 240 V AC / 50 Hz / 1 phase UK  
O = 240 V AC / 50 Hz / 1 phase Australia  
P = 100 V AC / 50 Hz / 1 phase Japan

### Supplementary details

Z = standard

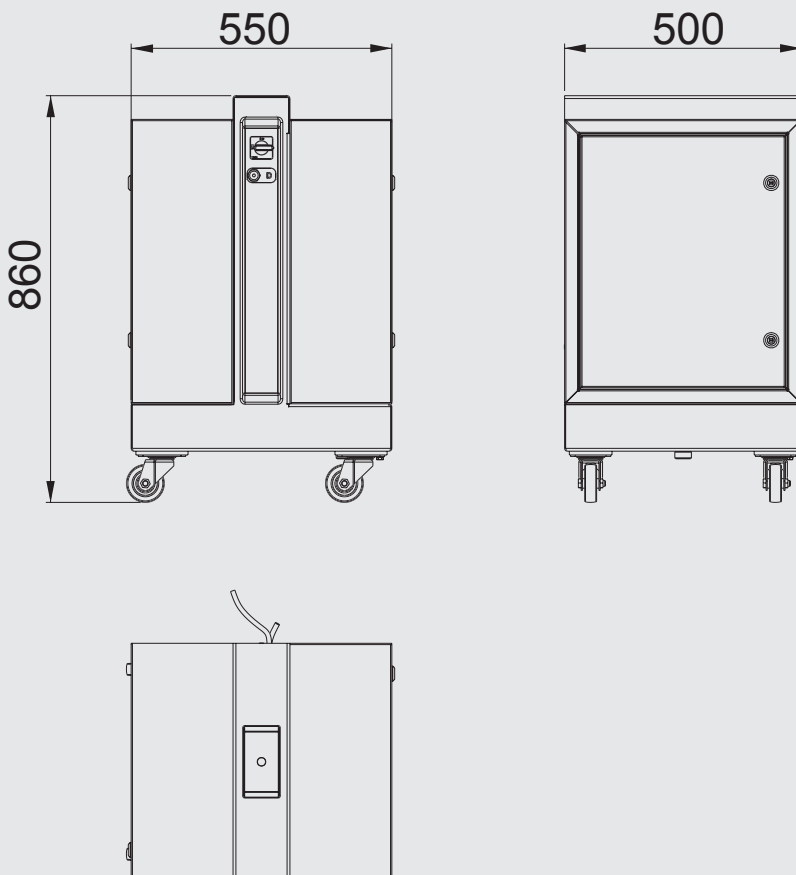
### Modifications

- = without modifications

## Items supplied

- CTM-FA
- Operating and Maintenance Instructions
- Calibration certificate

## Dimensions (All dimensions in mm)



## Note

The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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