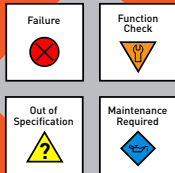


▶ Trust is good,  
control  
is better!



NE107 compliant  
application  
diagnostics



**KROHNE**

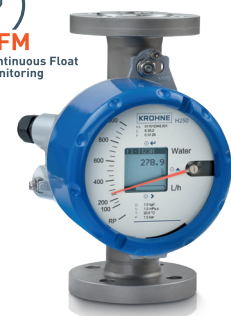
▶ measure the facts

## H250 M40 – Now with Continuous Float Monitoring (CFM) application diagnostics

Intelligent algorithms increase the application reliability of variable area flowmeters

CFM uses new software algorithms to monitor the motion patterns of the float to increase the application reliability of variable area flowmeters. It identifies and signals blockages caused by dirt or pressure bumps as well as compressional vibrations from gas or pulsating flows.

Remedial measures taken in the application on this basis help optimise the measuring accuracy and extend the life of the measuring devices.



H250 M40 with CFM



### Continuous Float Monitoring (CFM) application diagnostics

CFM upgrades the existing electronic device diagnostics with float-specific application diagnostics.

The new functions come as standard in all sensor electronics and, thanks to intelligent modularity, can also be retrofitted to existing devices by replacing the ESK4A sensor electronics in the field. They can be individually enabled and configured to the specific application by DTM or locally via the optional LCD/IO module.

Messages about the diagnostics functions via HART® 7 and the LCD/IO module can be classified from merely informative to device errors with failure current output in accordance with NE107.

### Continuous Float Monitoring (CFM) identifies:

- Float blockages because of dirt or pressure bumps
- Compressional vibrations of float in gas measurements
- Pulsating flow during liquid measurements e.g. because of displacement pumps
- Missing or incorrectly installed floats after maintenance
- External, interfering magnetic DC fields

Report application diagnostics via HART® 7 or the LCD/IO module



Device OK  
PV: 1719,96000 L/h



Failure  
Float is blocked



Out of specification  
Pulsating flow detected



Maintenance required  
Magnetic fields detected

### Application-specific classification of messages according to NE107

Event group	F	C	S	M	I
Blocked float	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Magnetic fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Pulsating flow	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>



For more news from our variable area flowmeter range, please visit: [krohne.com/va-news](http://krohne.com/va-news)



### Contact

KROHNE Messtechnik GmbH  
Ludwig-Krohne-Str. 5  
47058 Duisburg  
Germany  
Tel.: +49 203 301 0  
Fax: +49 203 301 103 89

info@krohne.com



[www.krohne.com](http://www.krohne.com)