

# WMTpart umi S

umi – universal-measurement-interface  
**Universal measurement interface**



umi S: Compact switch cabinet incl. accessories



## Universal measurement interface for diagnosis of mobile machines

### Description

**umi** offers the possibility to transfer sensor values to the CAN bus. These values can be mixed via two CAN interfaces with data of the machine. In this way it is possible, for example, to record an external speed sensor with valve values and the motor speed via J1939.

This means that external sensors can be integrated into recording of the measurement or data logging and, for example, displayed as a plot.

### Highlights

- Easy connection to the machine
- 16 configurable measurement channels
- Facilitates diagnosis during service assignments
- Optimisation of final testing and commissioning of machines
- Wide range of sensors and extensive accessories facilitate installation of the measurement technology

Using **WMT map**, the data can be viewed live or evaluated later. Current, voltage and frequency sensors can be connected to **umi**.







## Technical data

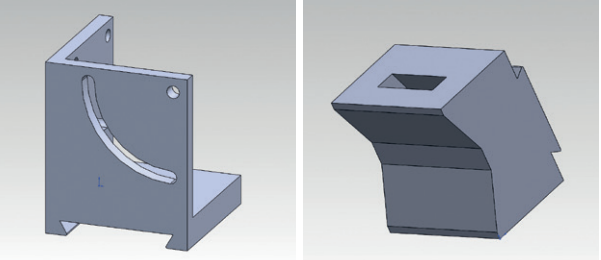
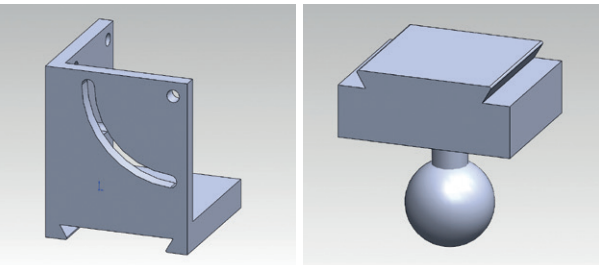

umi S	
Mobile data acquisition and recording of the following signals:	<ul style="list-style-type: none"><li>• Pressure</li><li>• Flow rate</li><li>• Speed</li><li>• Distance</li><li>• Voltage</li><li>• High currents via current clamp</li></ul>
Detection of all sensors that support the following values:	<ul style="list-style-type: none"><li>• 4 x 4..20 mA</li><li>• 8 x 0.5..4.5 V</li><li>• 4 x 0..35 V / Frequency / Digital</li></ul>
Acquisition of CAN data via two CAN interfaces	
Easy connection via supplied cable	
Convenient plug-in system for sensor technology and CAN	
Sending of a data set via <b>"tor"</b>	
Processing and display of the data via <b>"map"</b>	



## Accessories umi

Article	Description	Other
	<p>Volumetric flow meter</p> <p>The volume flow transmitters operate according to the turbine principle, wherein the rotational speed of an impeller rotating in the media flow is recorded and converted to a 4 .. 20 mA analogue signal.</p> <p>With two additional G1/4 threaded holes in the turbine housing, the volume flow transmitter offers additional connection options, e.g. for temperature and pressure sensors.</p>	<ul style="list-style-type: none"> <li>• Pressure-resistant up to 400 bar</li> <li>(depending on version)</li> <li>• Viscosities from 1 .. 100 cSt</li> <li>• Output signal 4 .. 20 mA</li> <li>• Additional connection of temperature and / or pressure sensors possible</li> </ul>
	<p>Length sensor: Optical distance sensor</p> <ul style="list-style-type: none"> <li>• Reliable optical distance measurement with high range up to 10 m</li> <li>• Two switching outputs, one of which can be programmed as an analogue output</li> <li>• Scalable measurement range and adjustable window function</li> <li>• Use in applications with background suppression</li> </ul>	

Article	Description	Other
	<p><b>Reflex light barrier for speed measurement</b></p> <ul style="list-style-type: none"> <li>• Particularly compact design for use in cramped installation conditions</li> <li>• Very high range, independent of the colour of the object</li> <li>• Intuitive adjustment of sensitivity via potentiometer</li> <li>• Convenient selection of light or dark switching via rotary switch</li> </ul>	
	<p><b>Pressure transmitter</b></p> <p>M01</p>	<ul style="list-style-type: none"> <li>• Various pressure ranges -1 ... 600 bar</li> <li>• Overpressure 800 bar</li> <li>• Supply voltage 9 to 36 VDC</li> <li>• Output signal 0.5 ... 4.5 V</li> <li>• Temperature range -40 ... +125 °C</li> <li>• Pressure connection G1/4</li> </ul>

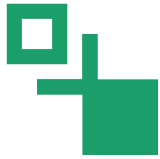
Article	Description
	<ul style="list-style-type: none"> <li>• An innovative fastening system rounds off the accessories.</li> <li>• There are fasteners available for cylinders, lines and flat surfaces.</li> <li>• There are holders available for every type of sensor that allow adjustment in different directions.</li> </ul>
	
	

## WMT SOLUTIONS in the fields:



### SYSTEMS

Fully configurable and ready-to-install complete systems



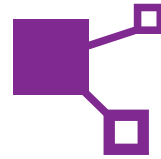
### COMPONENTS

Hardware based solutions, preconfigured and tested



### SUPPORT

Flexible solutions on-site and remote



### CONNECTIVITY

Interfaces for external systems – remote and local

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