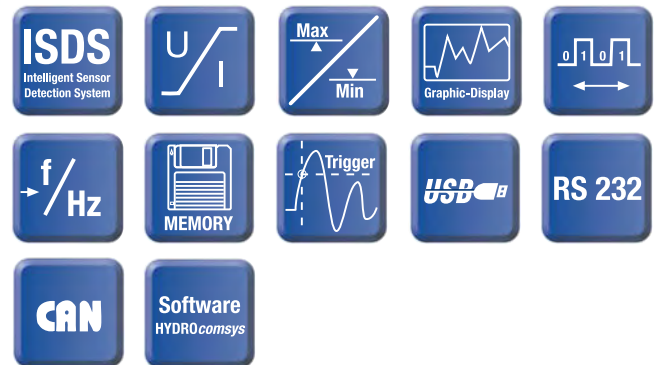


Mobile Measuring Systems

Multi-System 5060 – the new mobile all-rounder

24 input channels, up to 1 GB data memory and its effective operation software make the Multi-System 5060 the perfect mobile measuring system for industrial uses. The instrument is highly efficient and future-proof, with colour display, various interfaces and the integration of CAN bus technology.



- Six analogue measuring inputs for 0 to 20 mA, 4 to 20 mA, 0 to 10 V, 0,5 to 4,5 V, ± 10 V
- Two frequency inputs to max. 10 kHz
- Trigger input and output
- 14 CAN bus signal inputs
- 13 bit Analog/Digital-converter
- Calculated channels with fixed or freely definable formulas
- 3,5" color display with full graphical abilities and 4,096 colors (320 x 240 pixel)
- 128 MB measurement value memory – expandable to max. 1 GB (SD card)
- 200 measurement series with the total of two million values per measurement
- Measuring rate 0,1 ms
- Menu controlled operation
- Light plastic housing
- Data transmission with USB interface (device and host interface)
- Hardware and software filter
- CAN database to store the parameters of CAN sensors
- Sensor database to store sensor parameters
- PASS function for the execution of automated measuring tasks
- Project management for the storing of max. 20 instrument configurations
- Help function
- Mains power pack and USB data cable included as part of delivery
- Data transfer via USB 2.0 flash drive
- Also available as measuring set in a case, see page 33

Order data measuring sets

Measuring set 5060 p/p



Equipment example

| Measuring case containing: | |
|---|--|
| 1 Measuring instrument Multi-Handy 5060 | 2 Pressure sensors PR 15 with free selectable measuring ranges |
| 1 Power pack 24 VDC with adaptor | 1 Transport case |
| 1 USB data transmission cable | 2 Measuring cables 5,0 m |
| 2 MINIMESS® direct connection 1620 | |
| 1 Software HYDRocomsys | |

| 2 pressure sensors with free selectable measuring ranges | Order number |
|--|--------------------------------|
| (-0,1 to 0,6 MPa) -1 to +6 bar = 32 | 5060p/p- xx - xx |
| (0 to 6 MPa) 0 to 60 bar = 21 | |
| (0 to 20 MPa) 0 to 200 bar = 10 | |
| (0 to 40 MPa) 0 to 400 bar = 15 | |
| (0 to 60 MPa) 0 to 600 bar = 18 | |

1 MPa = 10 bar

Measuring set 5060 p/p/T



Equipment example

| Measuring case containing: | |
|---|--|
| 1 Measuring instrument Multi-Handy 5060 | 1 Temperature sensor -50 °C to +200 °C |
| 1 Power pack 24 VDC with adaptor | 2 Pressure sensors PR 15 with free selectable measuring ranges |
| 1 USB data transmission cable | 1 Transport case |
| 2 MINIMESS® direct connection 1620 | 3 Measuring cables 5,0 m |
| 1 Software HYDRocomsys | |

| 2 pressure sensors with free selectable measuring ranges | Order number |
|--|----------------------------------|
| (-0,1 to 0,6 MPa) -1 to +6 bar = 32 | 5060p/p/T- xx - xx |
| (0 to 6 MPa) 0 to 60 bar = 21 | |
| (0 to 20 MPa) 0 to 200 bar = 10 | |
| (0 to 40 MPa) 0 to 400 bar = 15 | |
| (0 to 60 MPa) 0 to 600 bar = 18 | |

1 MPa = 10 bar

Measuring set 5060 p/p/T/Q



Equipment example

| Measuring case containing: | |
|---|--|
| 1 Measuring instrument Multi-Handy 5060 | 2 Pressure sensors PR 15 with free selectable measuring ranges |
| 1 Power pack 24 VDC with adaptor | 1 Measuring turbine with free selectable measuring ranges |
| 1 USB data transmission cable | 1 Transport case |
| 2 MINIMESS® direct connection 1620 | 4 Measuring cables 5,0 m |
| 1 Software HYDRocomsys | |
| 1 Temperature sensor -50 °C to +200 °C | |

| 2 pressure sensors with free selectable measuring ranges | Order number | 1 meas. turbine with free selectable meas. range |
|--|--|--|
| (-0,1 to 0,6 MPa) -1 to +6 bar = 32 | 5060p/p/T/Q- xx - xx - xx | 01 = 1 to 10 l/min |
| (0 to 6 MPa) 0 to 60 bar = 21 | | 70 = 2 to 75 l/min |
| (0 to 20 MPa) 0 to 200 bar = 10 | | 71 = 9 to 300 l/min |
| (0 to 40 MPa) 0 to 400 bar = 15 | | 72 = 16 to 600 l/min |
| (0 to 60 MPa) 0 to 600 bar = 18 | | |

1 MPa = 10 bar

Order data measuring instruments

Multi-Handy 2020



| Short profile | Order number |
|---------------|--------------|
| 2x analogue | see page 34 |

Only available as measuring set.

Multi-Handy 3010



| Short profile | Order number |
|--------------------------|---------------|
| 2x analogue/1x frequency | 3160-00-67.00 |

Multi-Handy 3050



| Short profile | Order number |
|--------------------------|---------------|
| 3x analogue/1x frequency | 3160-00-63.00 |

Multi-System 5060



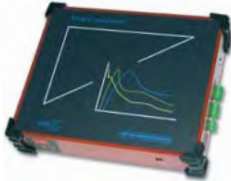


| Short profile | Order number |
|--|---------------|
| 6x analogue/2x frequency/14x CAN Power pack and USB data cable are part of the delivery | 3160-00-70.00 |

Multi-System 5060

Multi-System 8050

Multi-Control 8050

|  |  |  | <p align="center">Mobile Measuring Systems</p> |
|---|---|--|---|
| <p>Total 8 input connection sockets 6x 6-pol, analogue signal inputs 2x 6-pol, digital signal inputs 0,25 Hz to 10 kHz 0/4 to 20 mA, 0 to 10 V, ±10 V, 0,5 to 4,5 V</p> | <p>Total 16 input connection sockets 10x 6-pol, analogue signal inputs, 2x input socket for current ±2 ADC and voltage ±48 VDC 0 to 20 mA, 4 to 20mA, 0 to 10 VDC, ±10 VDC 4x 6-pol, digital signal inputs 0,25 Hz to 5 kHz 6x CAN inputs (optional 14)</p> | | <p align="center">Measuring inputs</p> |
| <p>Pressure, temperature, volume flow rotational speed, current, power, torque, way and speed, a.s.o.</p> | <p>Pressure, temperature, volume flow rotational speed, current, power, torque, way and speed, quantity measurement a.s.o.</p> | | <p align="center">Standard measurands</p> |
| <p>Analogue inputs: 0,1 ms</p> | <p>Analogue inputs: 0,1 ms/1 ms</p> | | <p align="center">Measuring rate</p> |
| <p>13 bit</p> | <p>Analogue inputs: 16 bit Current, voltage input: 12 bit</p> | | <p align="center">Resolution A/D-converter</p> |
| <p>Analogue ±0,1 % of final value Digital ±0,02 % of measured value</p> | <p>Analogue: ±0,1% of final value Current, voltage input: ±0,2 % of measured value</p> | | <p align="center">Error limit</p> |
| <p>Min and Max value storage of all measuring channels, selectable with key</p> | <p>Min and Max value storage of all measuring channels, selectable with key</p> | | <p align="center">Extreme value memory</p> |
| <p>128 MB (SD card) in max. 200 series, optional expandable to 1 GB max. 2 mio. values/series (8 MB), scan rate: 0,1 ms to 99 minutes</p> | <p>128 MB in max. 200 series, optional expandable to 1 GB max. 6 mio. values/series (24 MB) scan rate: 0,1 ms to 99 min</p> | | <p align="center">Measured value memory</p> |
| <p>Settable, external triggering, pre-trigger, 2 instruments can be coupled</p> | <p>Settable, external triggering, pre-trigger</p> | | <p align="center">Trigger</p> |
| <p>3,5" colour display, full graphical abilities, 320 x 240 pixels, 4096 colors</p> | <p>10,4"-TFT-touchpanel, full graphical abilities with 800 x 600 pixels 30 presentable channels</p> | <p>Black-box operation with PC 30 presentable channels</p> | <p align="center">Display</p> |
| <p>RS 232, USB Device and Host, CAN</p> | <p>RS 232, USB, CAN, Centronics, LVDS</p> | | <p align="center">Interfaces</p> |
| <p>NiMH batteries 14,4 V/2 150 mAh, allow independant operation of up to 8 hours</p> | <p>With direct current 24 VDC, with protection against reverse-polarity and over-voltage, the device is protected with self-reversing fuse resistors (PTC)</p> | | <p align="center">Power supply</p> |
| <p>EN 50081-1 and EN 50082-1</p> | <p>EN 50081-1 and EN 50082-1</p> | | <p align="center">CE labelling</p> |
| <p>IP 40</p> | <p>Device front: IP 40; casing: IP 40; measuring inputs: IP 40</p> | | <p align="center">Protection type</p> |
| <p>Operation temp.: 0 °C to +60 °C Relative humidity: < 80 % (not condensing) Storage: -20 °C to +70 °C</p> | <p>Operation temperature: 0 °C to +40 °C Relative humidity: 0 % to 85 % (not condensing) Storage: -20 °C to +60 °C</p> | <p>0 °C to +60 °C</p> | <p align="center">Ambient conditions</p> |
| <p>Housing material: ABS plastic</p> | <p>Housing material: Aluminium powder-coated, RAL 3004</p> | | <p align="center">General</p> |
| <p>Dimensions: est. 240 x 130 x 60 mm</p> | <p>Dimensions: est. 310 x 254 x 60 mm</p> | | |
| <p>RoHs conformity</p> | <p>RoHs conformity</p> | | |
| <p>Weight: est. 1,062 kg</p> | <p>Weight: 3,1 kg</p> | | |
| <p>Trigger output</p> | <p>2 analogue outputs to issue signals of the signal generator or to transfer measured values of a measuring input 4 digital outputs for the solving of control functions, one is a trigger output</p> | | <p align="center">Outputs</p> |

Further products

MINIMESS®,
Measuring hoses a.s.o. ...



Further products

Sensors for pressure, temperature,
rotational speed, volume flow, a.s.o. ...



HYDROTECHNIK GmbH

Holzheimer Straße 94–96 | D-65549 Limburg
Tel. +49 (0) 64 31 40 04-0 | Fax +49 (0) 64 31 4 53 08
www.hydrotechnik.com | info@hydrotechnik.com