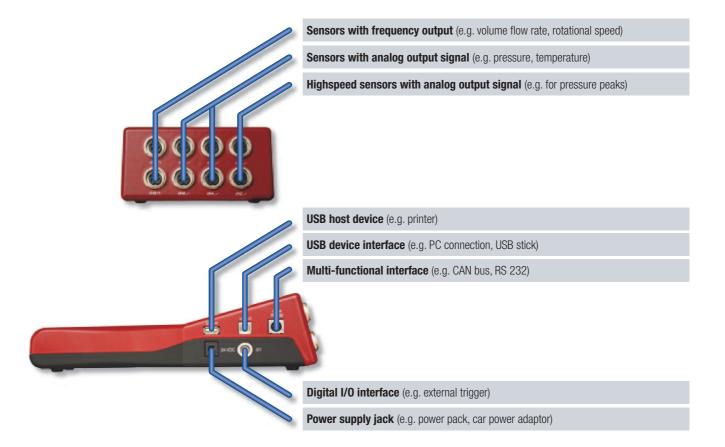
... the mobile All-rounder

Channels	24
Analog sensors	6 (2x highspeed)
Frequency sensors	2
Measuring value memory	2 GB
Trigger inputs/outputs	1/1

The perfect mobile measuring system with 24 channels, 2 GB data memory and powerful operation software. Use the graphical display to analyse meaurements during recording, or an USB stick to download measuring data in a fast and easy way.

Connectivity





Open system architecture



Nearly each input signal from most different sources (analog, digital, frequency, CAN, ...).

Full CAN bus functionality

Display and record signals from CAN bus systems (e.g. CANopen, J1939) on upt to 14 channels.



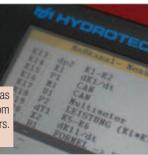
Programmable test sequences



Mobile test bench for serial testings or the standardized troubleshooting at complex systems.

14 special channels

Calculations with individual formulas and display of measured values from CAN busses or Multimeters.



Color display with graphical abilities



Perfect display of graphical elements (e.g. diagrams, images) with free assignment of arbitrary colors.

Networkability

Measuring system with 48 channels: full performance and synchornized measurement series for easy evaluation at the PC.



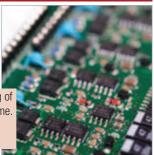
USB stick for data exchange



Easy transfer of measuring data or device configurations between measuring systems and PCs.

Unique hardware filter

Processing and smoothing of measuring data in real time.





Technical data

Measuring channels	Analog channels standard signals	6 (with Hydrotechnik ISDS)				
J	signals	0/4 20 mA, 0 10 V, ±10 V, 0.5 4.5 V, 1 5 V, 2 10 V				
	A/D converter	13 bit				
	measuring rate	10 kHz				
	error limit	± 0.15% FS				
	Measuring channels frequency	2 (with Hydrotechnik ISDS and direction detection)				
	signals	0.25 Hz 20 kHz (w.o.d.d.), 0.25 Hz 5 kHz (w.d.d.)				
	measuring rate	10 ms				
	error limit	\pm 0.02% of measured value				
	Electrical connection	6-pole jack, compatible with DIN 45 322, IEC 60130-9				
Further channels	Digital input channels	1, galvanically separated				
	signal	3.5 30 VDC (high)				
	Digital output channels	1				
	signal	NPN transistor output, max. 30 VDC / 10 mA				
	Special channels	14 (for CAN, MultiXtend or calculations)				
	MultiMeter connector	RS 232				
	CAN measuring rate / protocols	10 ms / CANopen, SAE J1939, a.o.				
	Calculations	Difference, sum, 1. derivation, hydraulic power,				
		free definable formulas				
Measuring value	Туре	SD card, 2 GB				
memory	Max. number of measuring series	200				
	Max. number of values per series	2 million				
	Recording rate	0.1 ms 999 min				
	Individual scan rate	2 selectable, factor 1 5,000				
	Recording time	1 s 999 h				
	Numer of triggers	2, linkable				
	Pretrigger	0 / 10 / 20 100%				
Equipment	Display	3.5" color TFT, QVGA				
-4	Interfaces	USB 2.0/FS device/host, RS232, CAN				
	Power supply	Power pack (24 VDC / 340 mA)				
	Batteries	NiMH 14.4 V / 2,150 mAh				
	Battery performance ¹	8 h				
	Sensor power supply	> 13 V (battery operation) / 18 V (power pack operation)				
	CAN power supply	~13 VDC / 80 mA (batteries), ~ 20 VDC / 80 mA (power pack)				
	USB host power supply	~ 5 VDC / 75 mA				
	and the second sec					
Features	Casing (L x W x H) / Weight	ABS plastics (~ 240 x 130 x 60 mm) / ~ 1.1 kg				
	Protection type	IP 40				
1: 12 mA load at all measuring channels	Operation / storage temperature	-10 50 °C / -20 +50 °C				
(equates to analog sensors 4 20 mA, or	Relative humidity	0 80% r.H. (not condensing)				

Measuring value memory

Equipment

Features

1: 12 mA load at all measuring channels (equates to analog sensors 4 ... 20 mA, or turbine with frequency signal, each at 50 % load), new batteries, completely charged



Range of delivery • Accessories

Instruments and **Measuring Sets**

1:	xx is measuring range code, see order data	

An is integrating range order, one of a target pressure sensor HySense® PR 3xx
yy is measuring range code, see order data values flow rate concorr HySense® OT 1yy

volume	TIOW	rate	sensor	HySense≌	QI	1X)

PC software	;
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- 1: 3 licenses HYDROcom Full
- 2: only for procedures in the instrument;
- PC software not contained 3: a license code is required to load new
- procedures into the instrument

Accessories

	Power pack with adaptors	USB cable 2.0 m	Data CD	MINIMESS® 1620 direct connector	Pressure sensor PR 300	Temperature sensor TE 100	Measuring turbine QT 100	Measuring cable 5.0 m	Transport case, plastics	
MultiSystem 5060	•	•	•	-	_	-	-	-	-	3160-00-70.00
MeasSet p/p	•	•	•	2x	2x	_	_	2x	•	5060C-pp-xx1-xx1
MeasSet p/p/T	•	•	•	2x	2x	٠	-	Зх	٠	5060C-ppT-xx ¹ -xx ¹
MeasSet p/p/T/Q	•	•	•	2x	2x	•	•	4x	•	5060C-ppTQ-xx ¹ -xx ¹ -yy ²

IASK	Recom. software	Delivery	Uraer number	
Firmware update	HYDRO boot	yes	8874-00-06.01	
Instrument remote configuration	HYDRO link	20	8874-00-07.01	
Instrument remote operation		no	0074-00-07.01	
Execute online measurements				
Download measurement data	HYDRO com	yes ¹	8874-13-01.02	
Evaluate and present measurement data				
Program measurement procedures	HYDRO gen	no	8874-01-01.55	
Execute measurement procedures	HYDRO run	yes ²³	8874-01-01.55	

Power pack	110/240 VAC, 50/60 Hz - 24 VDC/630 mA	8812-20-02.00
Table-top power pack	100/240 VAC, 50/60 Hz - 24 VDC/630 mA	8812-02-01.00
Car power supply	12 VDC – 24 VDC; cable length 5.0 m	8824-64-05.00
Power cord	US-american norm	8824-G6-02.00
Battery pack	NiMH, 2,150 mAh	8873-07-01.00
SD memory card	2 GB	8874-20-01.05
USB cable	Plug USB-A/-B; highspeed USB 2.0; 2.0 m	8824-F4-02.00
Connection cable	Parallel link 2x MS 5060	8824-F2-00.50
	External trigger, open cable ends	8824-D8-01.00
	Trigger cable for impulse counting	8824-R3-00.35
Transport cases	Plastic, black, with turbine box	3160-00-70.01
	Aluminium, red, without turbine box	3160-00-70.02
	Aluminium, red, with turbine box	3160-00-70.03
Protective bag	Nylon, black, front transparent film	8875-01-07.00
Calibration	all electrical input channels	3199-30-01.06
Service package	Basic	3199-30-00.03
	Plus	3199-30-01.06
	Professional	3199-30-02.06

Additional accessories (cables, Minimess® products, a.s.o.) in the section "Accessories"