



REPORTECHNIK

Panel mounting 2 channel display and datalogger

MultiPanel 2025

- Two channels, for selectable mA,
 Voltage or frequency sensor inputs
- 3rd channel for differential or power with Min & Max readings, all on one backlit LCD screen
- Rate, frequency & counting options
- Switching relays & mA or V signal outputs
- USB & RS232 data transmission
- Uses HYDROlink 6 software to record or monitor live via PC and analyse test data

The new MultiPanel 2025 is a sophisticated control panel designed to monitor and display test data over time. With two switchable measuring channels and a 3rd differential or P(kW) channel the Multipanel 2025 can display & record two different parameters over time with up to 60,000 readings per test. Scan rates are 1ms to 10s offering short high resolution testing or longer term recording.

Mobile hydraulics
End of Line Testing
Plant maintenance
Industrial hydraulics

R & D

DIGITAL MEASUREMENT & DISPLAY DATA LOGGER

MultiPanel 2025

TECHNICAL SPECIFICATIONS

	INPUTS				
Channel inputs	Selectable analogue or frequency or differential				
Signal Inputs	10mA, 0/210V, frequency PnP (rate or count).				
Signal Digital Input	Channel 4 - 1.14V - 1.54V				
Accuracy	Analogue ±0.2% full scale. Frequency ±0.1% of actual reading				
Calculated channels	One channel for differential pressure or hydraulic power dependent on sensors connected, Min & Max				

DATALOGGING				
Max No. of tests	5			
Values per test	o 60,000 for each of the five recordings			
Sampling rate	One sample every I ms			
Memory capacity	Megabytes			
Scanning rates	Selectable in five steps: 1ms, 10ms, 100ms, 1s and 10s.			

	INSTRUMENT				
Display	2.6" LCD with backlight (160 x 80 pixels resolution)				
PC interface	USB 2.0 UART (Virtual COM interface)				
Casing	ABS Plastic				
Power supply unit	/240V 50/60Hz Universal mains/USB power adaptor (5V and 500mA output)				
Sensor power supply	Nominal 13.4-14.2 VDC 50-140mA				
Casing/Dimension	ABS plastic (L 201mm x W 90mm x H 52.5mm)				
Weight	298g				
Protection levels	IP 40. Vibration to IEC 60068-2-64: 1994. Shock to IEC 60068-2-27: 1996-03.				
Operating Temp.	-20 to +50°C with 0-80 relative humidity				
Storage Temp	-25 to +60°C				

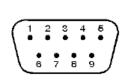
SIGNAL INPUT I MI6 6 pin female socket Designation Pin Function numbered pins SIGN I/SIGN F Analogue signal input 0/4 to 20 mA and frequency signal GND 2 Ground Sensor power supply SIGN_U/SIGN_DIR 4 Analogue signal input 0/2 to 10V / signal detection direction 5 Shield Screen/shield ISDS Sensor detection

Notes. mA input 190Ω / 1nF input impedance. Voltage input 42.1Ω / 1nF input impedance. Frequency input $100k\Omega$ / 1nF input impedance

SIGNAL INPUT 2				
M16 6 pin female socket	Designation	Pin	Function	
numbered pins 3	SIGN_I/SIGN_F	1	Analogue signal input 0/4 to 20 mA and frequency signal	
	GND	2	Ground	
1 5 5	+ V e	3	Sensor power supply	
	SIGN_U/SIGN_DIR	4	Analogue signal input 0/2 to 10V / signal detection direction	
	Shield	5	Screen/shield	
	ISDS	6	Sensor detection	

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D-SUB MALE CONNECTOR RS232					
Designation Pin Function					
+Ub	1	Power Supply (+5VDC or 200mA max)			
RXD	2	32 signal RXD			
TXD	3	RS232 signal TXD			
GND	5	ound			
-	6	Pin for bootloader			
-	8	Pin for bootloader			

TERMINAL BLOCK MALE CONNECTOR					
Power Supply	Designation	Designation Pin Function			
4 2	+Ubat	1	Power Supply via external batteries Vmax ≤ 3, 6VDC		
	+Uь	2	Power Supply 7 to 32VDC		
B B	GND	3	RS232 signal TXD		
3 1	GND	5	Ground		

	Pow	er Su	pply	
10	8	6	4	2
	0			To the
			1	
9	7	5	3	1

TERMINAL BLOCK MALE CONNECTOR				
Designation	Pin	Function		
lout (0/4-20mA)	1	Analogue current output		
GND	2	Ground		
Uout I (0/2-I0V)	3	Analogue voltage output		
GND	4	Ground		
EI (Trigin)	5	rigger input		
GND	6	Ground		
AI (TrigOut)	7	Frigger output		
RCOM (Relay common)	8	Relay changer		
RNC	9	Relay closer		
RNO	10	Relay opener		

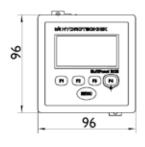
TERMINAL BLOCK MALE CONNECTOR					
	Designation	Pin	Function		
	I/F2	1	Analogue signal input 20mA/frequency signal of channel 2		
1210 8 6 4 2	I/FI	2	Analogue signal input 20mA/frequency signal of channel I		
	GND	3	Ground		
20,000,000,000,000	GND	4	Ground		
	+Ub	5	Sensor 2 power supply (+Ub or 14VDC)		
1197531	+Ub	6	Sensor I power supply (+Ub or I4VDC)		
	U/F2	7	Analogue signal input 10 V/ signal detection direction of channel 2		
	U/FI	8	Analogue signal input 10 V/ signal detection direction of channel 1		
	PE	9	Potential Earth connection		
	PE	10	Potential Earth connection		
	SSK2	11	Sensor detection (ISDS) of channel 2		
	SSKI	12	Sensor detection (ISDS) of channel I		

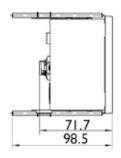
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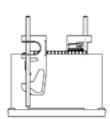
		ELECTRICAL	. CHARACTERISTI	cs	
Parameter	Min	Туре	Max	Unit	Condition
Input signal current	0		20	mA	-
Input impendance current	-	170 Ω / InF	-	-	-
Error limit 20 mA signal input	-	-	±0.2	%FS	-
Input signal voltage	0	-	10	V	
Voltage input impedance	-	42.1K Ω / Inf	-	-	-
Error limit 10V signal input	-	-	±0.2	%FS	-
Frequency Input signal	1	-	10.000	Hz	Not verified with direction
Input impedance	-				
Error limit frequency signal input	-	$100~\text{k}\Omega/\text{InF}$	-	-	-
Signal digital input (trigger)	1.14V (THL)	Low / High	1.54V (THH)	5V TTL	Channel 4 (Trigger. In)
Signal digital output	OV + 0.1V	Low / High	3.3V / ±0.1V	-	Channel 5 (Trigger. Out)
Analogue current output	~75µA / ~80mV	-	21.5mA/IIV	-	Channel 5 (Trigger. Out)
Error limit analogue outputs	-0.05 / -0.02	-	+0.15 / +0.8	%FS	0-20mA / 0-10V
Error limit analogue outputs	0 / -0.02	-	+0.15 / +0.15	%FS	4-20mA / 2-10v
Power supply sensor	13.4 50				











ORDER NUMBER/ACCESSORIES				
MultiPanel 2025	3160-00-80.00			
Measuring cable, connector pole - socket 16 M16 6 pole	8824-S1-02.50H			
Power supply with open circuit ends - 115 / 230 VAC	8812-20-03.00			
Micro USB data cable	8824-R4-02.00			

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