NEW

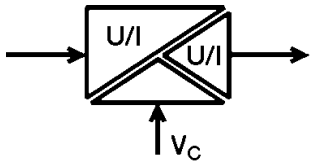
WAVEANALOG PRO DC/DC

- universally adjustable via DIP switch
- adjustment help via Internet
- 3-way-isolation
- voltage supply from 20-230 VAC/DC
- low power loss
- adjustable transmission frequency
- indication LED

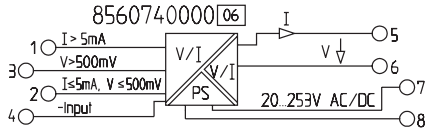
Approvals:

CE cULus GL

Block diagram



PRO DC/DC



Ordering data	Type	Part No.
Screw connection	WAS4 PRO DC/DC	**8560740000**
Tension clamp connection	WAZ4 PRO DC/DC	**8560750000**
Input/output	configurable	

Technical data*	
Input (adjustable)	
Voltage uni-/bipolar adjustable	20 mV…200 V
Voltage calibrated ranges	0…±60 mV, 0…±100 mV, 0…±150 mV, 0…±300 mV, 0…±500 mV, 0…±1V, 0…±5V, 0…±10 V, 0…±100 V
Current uni-/bipolar adjustable	0.1 mA…100 mA
Current calibrated ranges	0…±0.3 mA, 0…±1 mA, 0…±5 mA, 0…±16 mA, 0…20 mA, 0…50 mA
Input resistance	
at current input range < 5 mA/> 5 mA	approx. 100 Ω/approx. 5 Ω
at voltage input	approx. 1 MΩ
Input capacity at current input	approx. 1 nF
Voltage input range < 500 mV/> 500 mV	approx. 1 nF/approx. 500 pF
Overload capacity at current input range < 5 mA/> 5 mA	< 75 mA/< 300 mA
Voltage input range < 500 mV/> 500 mV	max. < 20 mA/< 3 mA continuous current
Output (adjustable)	
Voltage uni-/bipolar adjustable	0…10 V
Voltage calibrated ranges	0…±10 V, 2…10 V, 0…±5 V, 1…5 V
Current uni-/bipolar adjustable	0…20 mV
Current calibrated ranges	0…±20 mA, 4…20 mA
Offset	-100%, -50%, 0%, 50%, 100% of measuring span of the chosen output range
Load	
at output current	< 12 V (600 Ω at 20 mA)
at output voltage	< 10 mA (1 KΩ at 10 V)
Offset	20 µA and. 10 mV
Residual ripple	< 10 mV_{eff}
Adjustment zero pot.	+25% measuring span of the chosen output range
Adjustment span pot.	0.33…3.30 x end value of chosen input range
Gain error	< 0.1% of FS
Temperature coefficient	< 60 ppm/K of FS
Cut-off frequency	> 10 kHz, < 10 Hz switch
General	
Voltage supply	20…230 V AC/DC +10%
Power consumption	approx. 1 W
Frequency range	48…62 Hz
Operating temperature	-10°C…+70°C
Storage temperature	-40°C…+85°C
Factory setting	0…10 V/0…10 V 10 Hz
Dimensions W/L/H mm (in.)	12.5/92.4/112.5 (.49/3.64/4.43)
Weight	approx. 100 g
Approvals	CE, UL, GL
Coordination of insulation according to EN 50178, 04/98	
Rated voltage	600 V
Rated surge voltage	5 kV, 1.2/50 us, acc. to IEC 255-4
Overvoltage category	III
Contamination class	2
Test voltage	4 KV_{eff} input against output against auxiliary power
Standards/specifications	EN 50178
EMC standards	DIN EN 61326, EN 61326/A1, EN 50081-2, EN 61000-6-2
Dimensions and accessories	see page 356 + 366

*T_U = 23°C single module

Adjustment help WAVETOOL

This service tool enables quick and uncomplicated configuration of WAVEANALOG PRO. Download from Internet: http://www.weidmuller.com ⇨ Products ⇨ Downloads (see page 257)

Switch position/setting options

	Switch							
Input	S1				S2			
Input range	1	2	3	4	1	2	3	4
0…±60 mV								■
0…±100 mV	■							■
0…±150 mV		■						■
0…±300 mV	■	■						■
0…±500 mV			■					■
0…±1 V	■		■			■		■
0…±5 V		■	■			■		■
0…±10 V	■	■	■			■		■
0…±100 V				■			■	■
0…± ~0.3 mA	■			■	■			■
0…±1 mA		■		■	■			■
0…±5 mA	■	■		■	■			■
0…±10 mA			■	■	■			■
0…±20 mA	■		■	■	■			■
0…±50 mA		■	■	■	■			■
0…±20 mA*	■	■	■	■	■			■

*Offset conversion not calibrated

	Switch S2	4
calibrated ranges		■

Span pot. activated: input range x 0.33…x 3.30

	Switch				
Output	S1			S3	
Output range	5	6	7	1	2
0…±10 V				■	■
2…10 V	■			■	■
0…±5 V		■		■	■
1…5 V	■	■		■	■
0…±20 mA			■		
4…20 mA	■		■		

Offset	S1			S2
(in % of output voltage)	8	9	10	5
0%				■
-100%	■			■
-50%		■		■
+50%	■	■		■
+100%			■	■

Zero pot. activated: additional ±25%

	Switch S3	3
Bandwidth 10 kHz		
Bandwidth 10 Hz		■

Settings shown on side of housing.

■ = on
= off