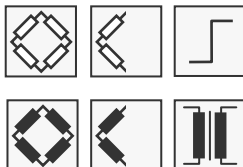




Front and back view e.wave A6-5 pac



The e.wave series is designed for industrial and experimental measurement and test systems, especially for measurement of electrical, thermal and mechanical quantities in the field of component testing.

The compact stackable housing can contain up to 8 measuring channels. The wide variety of connection possibilities, as well as a precise and powerful signal conditioning characterises the e.wave series. All measuring channels are galvanically isolated.

With the PAC-versions comprehensive data memory are available, as well as mathematical calculations, Boolean connections, sequencing and control functions.

Standardized interfaces RS485 or Ethernet TCP/IP allow the configuration of networks with several devices.

5 general purpose carrier frequency input channels

Strain gauge and inductive full and half bridges, LVDT

2 digital I/O and 2 analog outputs per channel

Status, Tare, memory reset, alarm, limit value, ± 10 V, to assign to any variable, e. g. maximum, envelope curve

Programmable Automation Controller

Extensive function library, e. g. mathematical calculations, combinations, extensive signal conditioning, signal generators, test sequencing, processing

Measuring data memory

16 MByte RAM and 128 MByte Flash memory
e. g. 32 Mio. floating point values

Ethernet TCP/IP Interface

Order information:

Product	Article No.
e.wave A6-5 pac	614983
Accessories	
Configuration Software	
ICP 100	633214
Interface Converter	
RS232 / RS485	
ISK 200	229682
ISK 101	689326

Additional features

- Accuracy 0.01
- Sensor connection in 3-, 4-, 5- and 6-wire
- Input ranges 2.5 bis 1250 mV/V at 1, 2.5 and 5 V excitation
- Measuring frequency range 0 up to 1000 Hz (-3 dB) (analog output)
- ADC resolution and calculation accuracy of 19 bit /1000 Hz
- PC-Software ICP for easy configuration of the modules
- Graphic interface for the PCA function
- Galvanic isolation of I/O signals, power supply and communication interface
- Power supply 10...30 VDC
- Sensor connection over 15 pin D-Sub plug
- Electromagnetic Compatibility according to EN 61000-4 and EN 55011

e.wave A6-5 pac Technical Data

Analog Outputs

Output voltage	±10.2 V, freely scalable
Max. load resistance	> 5 kΩ
Resolution DAC	16 bit
Frequency range	0 to 1,000 Hz (-3 dB)
Signal source	variable
Temperature influence	
on zero	2 mV / 10 K
on sensitivity	0.05 % / 10 K
Noise voltage	
0 ... 10 Hz	2 mV
Long time drift	1 mV / 48 h
Linearity deviation	0.01 %

Digital Inputs / Outputs

Input	Status, tare, reset
Input voltage	max. 30 VDC
Input current	max. 6 mA
Higher switching threshold	> 10 V (high)
Lower switching threshold	< 2,0 V (low)
Output	Process or host controlled
Type of output	Open Collector
Output voltage	max. 30 V
Output current	max. 100 mA

Host Interface Ethernet

Protocols	TCP/IP, UDP, PING, ASCII, Modbus TCP/IP
Services	DHCP, FTP-Server
Baud rate	10/100Mbps
Number of synch. Clients	max. 10
Galvanic isolation	500 V

Independent Operating System

Standardized Interface	Ethernet (FTP/Berkeley-Socket)
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Power Supply

Power Supply	10 to 30 VDC
	Over voltage and overload protection
Power consumption	approx. 36 W
Influence of the voltage	0.001 %/V

Mechanical

Case	Aluminium
Dimensions (B x H x T)	(330 x 142 x 270) mm
Protective system	IP20

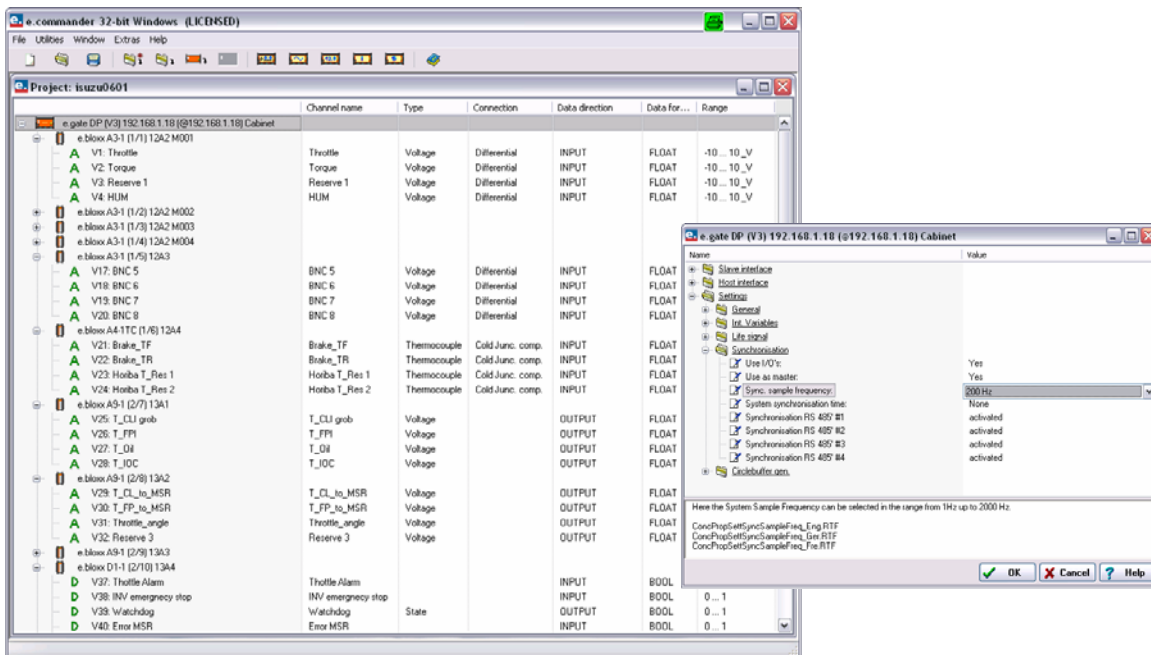
Environmental

Operating temperature	-20 °C to +40 °C
Storage temperature	-30 °C to +60 °C
Relative humidity	0 % to 95 % at 40 °C non condensing

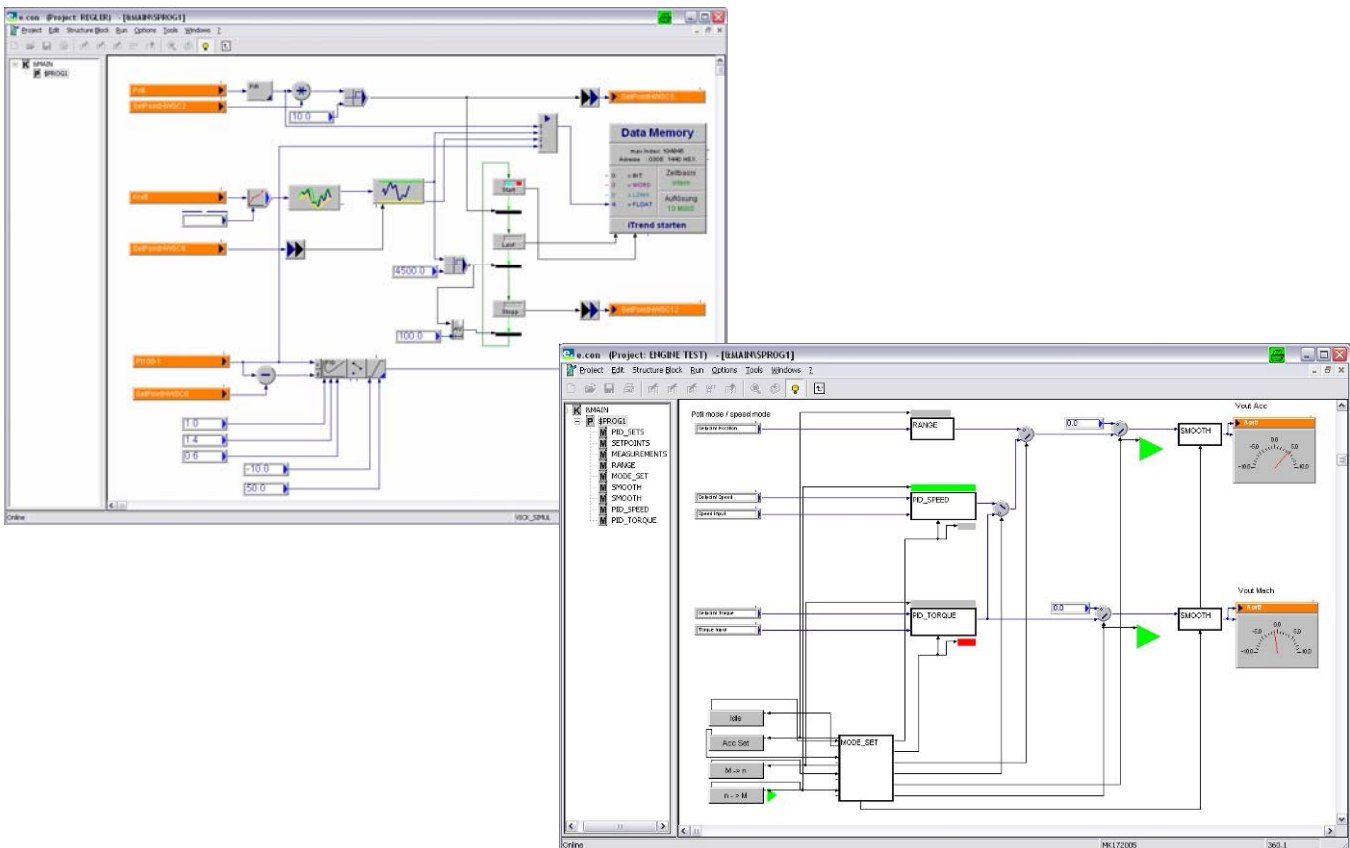
e.wave A6-5 pac Technical Data

Configuration

Configuration software e.commander



PAC-Programming system e.con



Valid from October 2007. Specification subject to change without notice.
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