

Product List

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Technical modifications are subject to change.



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ADwin-Gold II

ADwin-Gold II	
ADwin-Gold II	2 x 8 analog inputs $\pm 10V$ multiplexed to 2 x 18-bit ADC ($2\mu s$), 2 analog outputs 16-bit DAC ($3\mu s$), 1 trigger input, 16 digital inputs, 16 digital outputs D-SUB, 1 processor ADSP, 32-bit, 300MHz, 768KB int. / 256MB ext. RAM, 1 TiCo processor, 2 x LS-Bus, Ethernet interface (10/100 Mbit/s), compact metal enclosure, supply voltage range 10-35V
ADwin-Gold II Options (Options for the standard system, later upgrading is not possible)	
Gold II-CAN	Option: 2x CAN-BUS, 2x RS232/485
Gold II-CAN-LS	Option: 2x CAN-BUS (Low-Speed), 2x RS232/485
Gold II-CNT	Option: 4x 32-bit counters (RS422) Up/down counters with clock/direction or 4-edge evaluation, impulse measurement and simultaneous period width measurement 4x SSI decoders and 6 PWM outputs
Gold II-DA4	Option: 4 analog outputs, 16-bit DAC ($3\mu s$)
Gold II-DA8	Option: 8 analog outputs, 16-bit DAC ($3\mu s$)
Gold II-Boot	Option for Ethernet interface for stand-alone operation without PC. 10 MB non-volatile data memory. Fetch / Write support for S7 SPS Only in combination with an Ethernet interface
Gold-II-Storage-16	Option: Memory card 16 GB flash memory, real-time clock
Gold II-Profibus	Option: Profibus-DP slave interface, 9pin D-SUB socket
Gold II-Mount	DIN-rail installation kit for ADwin-Gold II
Accessories	
Gold II-Pow	External power supply (12V DC) for ADwin-Gold II
Gold II-Pow-Mount	External power supply for mounting on DIN-rail, for ADwin-Gold II
HSM-24V	32 digital I/Os, 24V level, configurable in groups of 8, DIN rail module for LS-Bus interface, screw-type connector

ADwin-Gold

ADwin-Gold	
	System features ADwin-Gold: 2 x 8 analog inputs, $\pm 10V$ multiplexed to 2x 16-bit ADC (5 μ s) and 2 x 14-bit ADC (0.5 μ s), 2 analog outputs 16-bit DAC (3 μ s), 1 trigger input, 16 digital inputs, 16 digital outputs D-SUB, 1 processor ADSP21062, 32-bit, 40MHz, 256KB int. RAM, 16MB ext. RAM, compact metal enclosure, supply voltage range 10-35V
ADwin-Gold-ENET	ADwin-Gold with Ethernet interface (10/100 MBit/s) BNC sockets for analog signals
ADwin-Gold-D-ENET	ADwin-Gold with Ethernet interface (10/100 MBit/s) D-SUB sockets for analog signals
ADwin-Gold-USB	ADwin-Gold with USB interface BNC sockets for analog signals
ADwin-Gold-D-USB	ADwin-Gold with USB interface D-SUB sockets for analog signals
ADwin-Gold Options (Options for the standard system, later upgrading is not possible)	
Gold-CAN	Option for ADwin-Gold-D : 2x CAN-BUS, 2x RS232/485 4x SSI decoder
Gold-CAN-LS	Option for ADwin-Gold-D : 2x CAN-BUS, Low-Speed 2x RS232/485, 4x SSI decoder
Gold-CO1	Option: 4x 32-bit counters, (RS422) period width measurement, impulse measurement or up/down counters with clock/direction or 4-edge evaluation
Gold-DA	Option: 6 additional analog outputs, 16-bit DACs, 3 μ s conversion time
Gold-MEM64	Memory expansion from 16MB ext. memory to 64MB and memory expansion from 256KB int. memory to 512KB.
Gold-Boot	Option for Ethernet interface for stand-alone operation without PC. 10 MB non-volatile data memory. Fetch / Write support for S7 SPS Only in combination with an Ethernet interface
Gold-Mount	DIN-rail installation kit
Accessories	
Gold-Pow	External power supply (12V DC) for the ADwin-Gold

ADwin-light-16

ADwin-light-16 Systems

	System features ADwin-L16: 8 analog inputs $\pm 10V$ multiplexed to 16-bit ADC (2 μ s) 2 analog outputs 16-bit DAC (3 μ s), 1 trigger input, 6 (4) digital inputs, 6 digital outputs, 2x 32-bit impulse counters (TTL), 1x LS-bus 1 processor ADSP21062, 32-bit, 40MHz, 256KB int./ 16MB ext. RAM
ADwin-L16-PCI	ADwin-L16 as a PCI plug-in board (1 slot) USB interface to the computer
ADwin-L16-EXT	ADwin-L16 in an external industrial enclosure (226x109x44 mm) USB interface to the computer
ADwin-L16-EXT-ENET	ADwin-L16 in an external industrial enclosure (226x109x74 mm) Ethernet interface (10/100 Mbit/s) to the computer supply voltage range 10-35V
ADwin-L16-EURO	ADwin-L16 as a Euro-size board, (5HP) USB interface to the computer
ADwin-L16-EURO-ENET	ADwin-L16 as a Euro-size board, (10HP) Ethernet interface (10/100 Mbit/s) to the computer

ADwin-light-16 Options (Options for the standard system, later upgrading is not possible)

L16-CO1	Option: 1x 32-bit up/down counter (TTL) with 4-edge evaluation instead of 2x 32-bit impulse counters (TTL) (Not available with the L16-DIO1 and L16-DIO2 options)
L16-DIO1	Option: 1x CAN bus, 32 TTL I/Os, configurable in groups of 8, 2x 32-bit counters (RS422), period width measurement, impulse measurement or up/down counters with clock/direction or 4-edge evaluation, 1x SSI decoder
L16-DIO1-LS	Option: 1x CAN bus, low-speed, 32 TTL I/Os, configurable in groups of 8, 2x 32-bit counters (RS422), period width measurement, impulse measurement or up/down counters with clock/direction or 4-edge evaluation, 1x SSI decoder
L16-DIO2	Option: 32 TTL I/Os, configurable in groups of 8, 2x 32-bit counters (1x TTL, 1x RS422) period width measurement, impulse measurement or up/down counters with clock/direction or 4-edge evaluation, 1x SSI decoder
L16-DIO3	Option: 32 TTL I/Os, configurable in groups of 8
L16-MEM512k	Memory expansion from 256KB int. RAM to 512KB
L16-Boot	Option for Ethernet interface for stand-alone operation without PC. 10 MB non-volatile data memory. Fetch / Write support for S7 SPS Only in combination with an Ethernet interface
L16-Mount	DIN-rail installation kit for the ADwin-L16-EXT system

Accessories

L16-Pow	External power supply (12V DC) for the ADwin-L16
L16-Pow-Mount	External power supply for mounting on DIN-rail, for ADwin-L16
HSM-24V	32 digital I/Os, 24V level, configurable in groups of 8, DIN rail module for LS-Bus interface, screw-type connector

* System dimensions with the L16-DIO1 + DIO2 options
 - ADwin-L16-EXT-ENET 226x109x104 mm, ADwin-L16-EXT 226x109x104 mm
 - ADwin-L16-EURO-ENET 20 HP wide, ADwin-L16-EURO 15 HP wide
 - ADwin-L16-PCI requires 3 slots
 **System dimension with the L16-DIO-3 option:
 - ADwin-L16-EXT-ENET 226x109x104 mm, ADwin-L16-EXT 226x109x104 mm
 - ADwin-L16-EURO-ENET 15 HP wide, ADwin-L16-EURO 10 HP wide
 - ADwin-L16-PCI requires 2 slots

ADwin-Pro II

Enclosure

ADwin-Pro II Enclosures	
ADwin-Pro II	19" enclosure (19 inch wide, 5 ¼ inch high), AC power supply, 115/230V, 14-16 slots. Desktop unit, all modules mounted from the frontside.
ADwin-Pro II-BM	19" enclosure (19 inch wide, 5 ¼ inch high), AC power supply, 115/230V, 13-15 slots. Desktop unit, all modules mounted from the backside.
ADwin-Pro II-DC	19" enclosure (19 inch wide, 5 ¼ inch high), DC-DC converter 10-35V, 14-16 slots. Desktop unit, all modules mounted from the frontside.
ADwin-Pro II-light	½ 19" enclosure (9 inch wide, 5 ¼ inch high), AC power supply 115/230V, 7 slots. Desktop unit, all modules mounted from the frontside.
ADwin-Pro II-light-DC	½ 19" enclosure (9 inch wide, 5 ¼ inch high), DC-DC converter 10-35V, 7 slots. Desktop unit, all modules mounted from the frontside.
ADwin-Pro II-mini	enclosure (25HP wide, 3U high), DC-DC-converter 10-35V, 4-5 slots. Desktop unit, all modules mounted from the frontside.

Processor Modules

ADwin-Pro II CPU	
Pro-CPU-T11-ENET	1 processor ADSP, 32-bit, 300MHz, 768KB int. RAM, 256MB ext. RAM, 1 Ethernet interface (10/100Mbit/s) for communication with the computer, 1 trigger input.
ADwin-Pro II CPU Options (Options of the processor modules, later upgrading is not possible)	
Pro-Boot	Option for Ethernet interface for stand-alone operation without PC. 10 MB non-volatile data memory. Fetch / Write support for S7 SPS Only in combination with an Ethernet interface

ADwin-Pro II

Analog Input/Output Modules

Analog Input Modules, multiplexed	
Pro II-AIn-8/18-L2	8 diff. analog inputs, 18-bit ADC, 2µs conversion time, MUX 2µs, block measurement, 2pin LEMO socket
Pro II-AIn-32/18-D	32 single ended or 16 diff. analog inputs, 18-bit ADC, 2µs conversion time, MUX 2µs, block measurement, D-SUB socket isolated by optocouples
Pro II-AIn-32/18-D-TiCo	32 single ended or 16 diff. analog inputs, 18-bit ADC, 2µs conversion time, MUX 2µs, block measurement, D-SUB socket isolated by optocouples, (TiCo)
Pro II-AIn-8/18-8B	8 analog voltage inputs +/- 10V 8 analog voltage inputs for 8B signal conditioning modules 18-bit ADC, 2µs conversion time, block measurement, D-SUB socket, 15 HP
Pro II-AIn-16/18-8B	16 analog voltage inputs for 8B signal conditioning modules 18-bit ADC, 2µs conversion time, block measurement, D-SUB socket, 15 HP
Analog Input Modules, Parallel Acquisition, without Multiplexer	
Pro II-AIn-F-4/14-L2	4 analog diff. inputs, 4x 14-bit ADC, 4x50MHz, 256MB RAM 2pin LEMO socket
Pro II-AIn-F-4/14-B	4 analog diff. inputs, 4x 14-bit ADC, 4x50MHz, 256MB RAM, BNC socket
Pro II-AIn-F-4/14-D	4 analog diff. inputs, 4x 14-bit ADC, 4x50MHz, 256MB RAM D-SUB socket
Pro II-AIn-F-8/14-L2	8 analog diff. inputs, 8x 14-bit ADC, 4x50MHz, 8x25MHz, 256MB RAM 2pin LEMO socket, 10 HP
Pro II-AIn-F-8/14-B	8 analog diff. inputs, 8x 14-bit ADC, 4x50MHz, 8x25MHz, 256MB RAM BNC socket, 10 HP
Pro II-AIn-F-8/14-D	8 analog diff. inputs, 8x 14-bit ADC, 4x50MHz, 8x25MHz, 256MB RAM D-SUB socket, 10 TE
Pro II-AIn-F-4/18-L2	4 analog isolated inputs, 4x 18-bit ADC, 2µs conversion time, 2pin LEMO socket
Pro II-AIn-F-4/18-B	4 analog isolated inputs, 4x 18-bit ADC, 2µs conversion time, BNC socket, 10 HP
Pro II-AIn-F-4/18-D	4 analog isolated inputs, 4x 18-bit ADC,, 2µs conversion time, D-SUB socket
Pro II-AIn-F-8/18-L2	8 analog isolated inputs, 8x 18-bit ADC, 2µs conversion time, 2pin LEMO socket
Pro II-AIn-F-8/18-B	8 analog isolated inputs, 8x 18-bit ADC, 2µs conversion time, BNC socket, 10 HP
Pro II-AIn-F-8/18-D	8 analog isolated inputs, 8x 18-bit ADC, 2µs conversion time, D-SUB socket
Analog Output Modules	
Pro II-AOut-4/16	4 analog outputs, 16-bit DAC, 3µs conversion time, LEMO socket
Pro II-AOut-4/16-D	4 analog outputs, 16-bit DAC, 3µs conversion time, D-SUB socket
Pro II-AOut-4/16-B	4 analog outputs, 16-bit DAC, 3µs conversion time, BNC socket
Pro II-AOut-8/16	8 analog outputs, 16-bit DAC, 3µs conversion time, LEMO socket
Pro II-AOut-8/16-D	8 analog outputs, 16-bit DAC, 3µs conversion time, D-SUB socket
Pro II-AOut-8/16-B	8 analog outputs, 16-bit DAC, 3µs conversion time, BNC socket, 10 HP

ADwin-Pro II

Digital-I/Os, Counter Modules

Digital Input / Output Modules	
Pro II-DIO-32	32 TTL I/Os configurable in groups of 8
Pro II-DIO-32-TiCo	32 TTL I/Os configurable in groups of 8 (TiCo 256MB)
Pro II-OPT-16	16 digital inputs with optocouplers. Input voltage 5V, 12V or 24V
Pro II-TRA-16	16 transistor outputs, isolated by optocouplers, max. 200 mA per channel
Pro II-TRA-16-G	16 transistor outputs, isolated by optocouplers, max. 200 mA per channel, low side driver
Pro II-REL-16	16 relay outputs (500mA)
Counters, PW and PWM Modules	
Pro II-CNT-D	4x 32-bit counters (RS422), up/down counter with clock/direction or quadrature evaluation, impulse measurement and <u>simultaneous</u> period width measurement, 2x SSI-Decoder, (TiCo)
Pro II-CNT-T	4x 32-bit counters (TTL), up/down counter with clock/direction or quadrature evaluation, impulse measurement and <u>simultaneous</u> period width measurement, (TiCo)
Pro II-PWM-16	16 pulse-width modulated signals (TTL), 32-bit
Counters, PW and PWM modules (isolated by optocouplers)	
Pro II-CNT-I	4x 32-bit counters, up/down counter with clock/direction or quadrature evaluation, impulse measurement and <u>simultaneous</u> period width measurement, isolated by optocouplers (5V, 12V, 24V), (TiCo)
Pro II-PWM-16-I	Transistor outputs for 16 pulse-width modulated signals, 32-bit, isolated by optocouplers (5V, 12V, 24V)

Serial Modules

Serial and fieldbus modules	
Pro II-RSx-2	2x RS232/485 interface, software-selectable 9pin D-SUB connector, (TiCo)
Pro II-RSx-4	4x RS232/485 interface, software-selectable 9pin D-SUB connector, (TiCo), 10 HP
Pro II-CAN-2	2x CAN bus, high-speed, 9pin D-SUB connector, (TiCo)
Pro II-CAN-2-LS	2x CAN bus, low-speed, 9pin D-SUB connector, (TiCo)
Pro II-LIN-2	2x LIN bus, 9pin D-SUB connector
Pro II-PROFI-SL	1x Profibus DP slave interface, 9pin D-SUB socket
Pro II-Flex-2 <i>In Vorbereitung</i>	FlexRay interface module, 2 controllers with 2 channels each, 9pin D-SUB socket

ADwin-Pro

Enclosures

ADwin-Pro Standard Enclosures	
ADwin-Pro	19" enclosure (19 inch wide, 5 ¼ inch high), AC power supply, 115/230V, 16 slots. Desktop unit, all modules mounted from the frontside.
ADwin-Pro-BM	19" enclosure (19 inch wide, 5 ¼ inch high), AC power supply, 115/230V, 15 slots. Desktop unit, all modules mounted from the backside.
ADwin-Pro-DC	19" enclosure (19 inch wide, 5 ¼ inch high), DC-DC converter 10-35V, 16 slots. Desktop unit, all modules mounted from the frontside.
ADwin-Pro-light	½ 19" enclosure (9 inch wide, 5 ¼ inch high), AC power supply 115/230V, 7 slots. Desktop unit, all modules mounted from the frontside.
ADwin-Pro-mini-2	enclosure (25HP wide, 3U high), DC-DC-converter 10-18V, 5 slots. Desktop unit, all modules mounted from the frontside.
ADwin-Pro-mini-3	enclosure (25HP wide, 3U high), DC-DC-converter 20-36V, 5 slots. Desktop unit, all modules mounted from the frontside.

Processor Modules

ADwin-Pro CPU	
Pro-CPU-T10-ENET	1 processor ADSP21160, 32-bit, 80MHz, 512KB int. RAM, 128MB ext. RAM, 1 Ethernet interface (10/100Mbit/s) for communication with the computer, 1 trigger input. Important: ADbasic version 4 is necessary.
Pro-CPU-T9-ENET	1 processor ADSP21062, 32-bit, 40MHz, 256KB int. RAM, 16MB ext. RAM, 1 Ethernet interface (10/100Mbit/s) for communication with the computer, 1 trigger input.
Pro-CPU-T9-USB	1 processor ADSP21062, 32-bit, 40MHz, 256KB int. RAM, 16MB ext. RAM, 1 USB interface for communication with the computer, 1 trigger input.
ADwin-Pro CPU Options (Options of the processor modules, later upgrading is not possible)	
Pro-MEM-T9-64	Memory expansion for the T9 from 16 MB ext. memory to 64 MB and memory expansion from 256 KB int. memory to 512 KB
Pro-Boot	Option for Ethernet interface for stand-alone operation without PC. 10 MB non-volatile data memory. Fetch / Write support for S7 SPS Only in combination with an Ethernet interface

ADwin-Pro

Analog Input/Output Modules

Analog Input Modules, Multiplexed	
Pro-AIn-8/14	8 analog diff. inputs, 14-bit ADC, 0.5µs conversion time, MUX 3µs, block measurement, LEMO socket
Pro-AIn-8/14-D	8 analog diff. inputs, 14-bit ADC, 0.5µs conversion time, MUX 3µs, block measurement, D-SUB socket
Pro-AIn-16/14-C	16 diff. voltage inputs 0..20mA, 500Ω Shunt (0.05%, TK10), 14-bit ADC, 0.5µs conversion time, MUX 3µs, D-SUB socket.
Pro-AIn-32/14	32 single ended or 16 differential analog inputs, 14-bit ADC, 0.5µs conversion time, MUX 3µs, block measurement, D-SUB socket
Pro-AIn-8/16	8 analog diff. inputs, 16-bit ADC, 5µs conversion time, MUX 7µs, block measurement, LEMO socket
Pro-AIn-8/16-D	8 analog diff. inputs, 16-bit ADC, 5µs conversion time, MUX 7µs, block measurement, D-SUB socket
Pro-AIn-8/16-VF	8 analog diff. inputs, 16-bit ADC, LEMO sockets filter board with variable cut-off frequency 2Hz -2kHz, low-pass 4th order, Butterworth
Pro-AIn-32/16	32 single ended or 16 diff. analog inputs, 16-bit ADC, 5µs conversion time, MUX 7µs, block measurement, D-SUB socket
Analog Input Modules, Parallel Acquisition, without Multiplexer	
Pro-AIn-F-4/14	4 analog diff. inputs, one 14-bit ADC per each of the channels, 0.5µs conversion time per ADC, 2MB RAM, LEMO socket
Pro-AIn-F-4/14-D	4 analog diff. inputs, one 14-bit ADC per each of the channels, 0.5µs conversion time per ADC, 2MB RAM, D-SUB socket
Pro-AIn-F-8/14	8 analog diff. inputs, one 14-bit ADC per each of the channels, 0.5µs conversion time per ADC, 2MB RAM, LEMO socket
Pro-AIn-F-8/14-D	8 analog diff. inputs, one 14-bit ADC per each of the channels, 0.5µs conversion time per ADC, 2MB RAM, D-SUB socket
Analog Output Modules	
Pro-AOut-4/16	4 analog outputs, 16-bit DAC, 3µs conversion time, LEMO socket
Pro-AOut-4/16-D	4 analog outputs, 16-bit DAC, 3µs conversion time, D-SUB socket
Pro-AOut-8/16	8 analog outputs, 16-bit DAC, 3µs conversion time, LEMO socket
Pro-AOut-8/16-D	8 analog outputs, 16-bit DAC, 3µs conversion time, D-SUB socket
Pro-AOut-4/16-M2	4 analog outputs, 16-bit DAC, 3µs conversion time, LEMO socket Individually definable signal generator with 2MB SRAM
Pro-AOut-4/16-M2-D	4 analog outputs, 16-bit DAC, 3µs conversion time, D-SUB socket Individually definable signal generator with 2MB SRAM

ADwin-Pro

Digital I/Os, Counter Modules, Flash Disc:

Flash-Disc	
Pro-Storage	PCMCIA Flash Disk and ADwin carrier module for mobile storage of data. Contains 1 PCMCIA Flash storage medium of 256MB
Digital Input/Output Modules	
Pro-COMP-16	Comparator input board (20MHz), 16 channels, switching threshold -2V...8V (1024 steps)
Pro-DIO-32	32 TTL I/Os configurable in groups of 8
Pro-OPT-16	16 digital inputs with optocouplers. Input voltage 5V, 12V or 24V
Pro-TRA-16	16 transistor outputs, isolated by optocouplers, max. 100 mA per channel
Pro-REL-16	16 relay outputs (500mA)
HSM-24V	32 digital I/Os, 24V level, configurable in groups of 8 DIN rail module for LS bus interface, screw-type connector
Counters, PW and PWM Modules	
Pro-CO4-D	4x 32-bit counters (RS422), pulse-period measurement, pulse-width and duty cycle measurement, up/down counter with clock/direction, or quadrature evaluation, 2x SSI decoders
Pro-CO4-T	4x 32-bit counters (TTL), pulse-period measurement, pulse-width and duty cycle measurement, up/down counter with clock/direction, or quadrature evaluation
Pro-CNT-16/32	16x 32-bit impulse counters
Pro-PWM-4	Transistor outputs for pulse-width modulated signals, 16-bit
Counters, PW and PWM modules (isolated by optocouplers I_{IN} 10mA)	
Pro-CO4-I	4x 32-bit counters, pulse-period measurement, pulse-width and duty cycle measurement; up/down counter with clock/direction, or quadrature evaluation. 5V, 12V, or 24V.
Pro-CNT-16/32-I	16x 32-bit impulse counters, input voltage 5V, 12V or 24V
Pro-PWM-4-I	Transistor outputs for 4 pulse-width modulated signals, 16-bit.

Serial Modules

Serial and Fieldbus Modules	
> It is recommended to use the CPU option Pro-MEM-T9-64 with these modules <	
Pro-RS232-2	2x RS232 interface, 9pin D-SUB connector
Pro-RS232-4	4x RS232 interface, 9pin D-SUB connector, 10 TE
Pro-RS485-2	2x RS485 interface, 9pin D-SUB connector
Pro-RS485-4	4x RS485 interface, 9pin D-SUB connector, 10 TE
Pro-RS422-2	2x RS422 interface, 9pin D-SUB connector
Pro-RS422-4	4x RS422 interface, 9pin D-SUB connector, 10 TE
Pro-LS-2	2x LS bus interface for ADwin-Pro
Pro-CAN-1	1x CAN bus, high-speed, 9pin D-SUB connector and socket
Pro-CAN-2	2x CAN bus, high-speed, 9pin D-SUB connector
Pro-CAN-1-LS	1x CAN bus, low-speed, 9pin D-SUB connector and socket
Pro-CAN-2-LS	2x CAN bus, low-speed, 9pin D-SUB connector
PRO-PROFI-DP-SL	1x Profibus-DP slave interface, 9pin D-SUB socket
PRO-INTER-SL	1x Interbus slave interface, 9pin D-SUB connector and socket

ADwin-Pro

Signal Conditioning Modules

Amplifier components: PT100, Thermocouples types J or K (other types on request), Note: each module requires 1 input of an analog input module for data acquisition	
Pro-TC-8-ISO	Thermocouple board, 8 channels, isolated , filter at 7 Hz, 16-bit ADC per channel, type -K, -J, -S, -T
Pro-TC-4-K	Inputs for 4 thermocouples type K.
Pro-TC-8-K	Inputs for 8 thermocouples type K.
Pro-TC-16-K	Inputs for 16 thermocouples type K, 37pin D-SUB socket
Pro-TC-4-J	Inputs for 4 thermocouples type J.
Pro-TC-8-J	Inputs for 8 thermocouples type J.
Pro-TC-16-J	Inputs for 16 thermocouples type J, 37pin D-SUB socket
Pro-TC-16-J-con	Thermocouple D-SUB connector for the module Pro-TC-16-J
Pro-TC-16-K-con	Thermocouple D-SUB connector for the module Pro-TC-16-K
Pro-PT100-4	Inputs for 4 Pt100 elements, LEMO connector to the sensor.
Pro-PT100-4-D	Inputs for 4 Pt100 elements, D-SUB connector to the sensor.
Pro-PT100-8	Inputs for 8 Pt100 elements, LEMO connector to the sensor, requires two slots
Pro-PT100-8-D	Inputs for 8 Pt100 elements, D-SUB connector to the sensor.

Filters/Isolation Amplifiers ^{*1}

Pro-AIn-ISO4	Isolation amplifier , 4 channels, cut-off frequency 50kHz, LEMO outputs, LEMO inputs, 2pin, size 0
Pro-MB8-DD	Carrier module for up to 8 MB modules, DSUB inputs/outputs, requires 3 slots.
Pro-MB8-LL	Carrier module for up to 8 MB modules, LEMO connector inputs/outputs, requires 3 slots
Pro-MB8-LD	Carrier module for up to 8 MB modules, LEMO connector inputs/DSUB outputs, requires 3 slots
Pro-MB8-DL	Carrier module for up to 8 MB modules, DSUB connector inputs/LEMO connector outputs, requires 3 slots

*1 Time of delivery on request

Accessories *ADwin-Pro*, *ADwin-Gold*, *ADwin-L16*

Cable and Adapter Sets

Cable Sets – LEMO 1pin	
Pro-CS-1	4 x 20cm (7.8 inch) LEMO connector ↔ cable ↔ LEMO connector 4 x 40cm (15.7 inch) LEMO connector ↔ cable ↔ LEMO connector
Pro-CS-2	4 x 40cm (15.7 inch) LEMO connector ↔ cable ↔ LEMO connector 4 x 80cm (31.5 inch) LEMO connector ↔ cable ↔ LEMO connector
Pro-CS-3	4 x 100cm (39.4 inch) LEMO connector ↔ cable ↔ LEMO connector 4 x 150cm (59 inch) LEMO connector ↔ cable ↔ LEMO connector
Pro-CS-4	4 x 500cm (196.8 inch) LEMO connector ↔ cable ↔ LEMO connector
Pro-CS-5	8 x 40cm (7.8 inch) LEMO connector ↔ cable ↔ LEMO connector
Pro-CS-6	8 x 100cm (39.4 inch) LEMO connector ↔ cable ↔ LEMO connector
Pro-CS-7	8 x 200cm (78.8 inch) LEMO connector ↔ cable ↔ LEMO connector
Cable Sets – LEMO 2pin	
Pro-CS-8	4 x 200cm (78.8 inch) 2pin LEMO connector ↔ cable ↔ no connector
Pro-CS-9	4 x 100cm (39.4 inch) 2pin LEMO connector ↔ cable ↔ 2pin LEMO connector 4x LEMO sockets for front panel assembly included
Pro-CS-10	4 x 50cm (19.7 inch) 2pin LEMO connector ↔ cable ↔ 2pin LEMO connector 4x LEMO sockets for front panel assembly included
Pro-CS-11	4 x 200cm (78.8 inch) 2pin LEMO connector ↔ cable ↔ 2pin LEMO connector 4x LEMO sockets for front panel assembly included
Adapter Sets LEMO / BNC	
Pro-AS-1	4 adapters: LEMO-connector (female) ↔ BNC-connector (female)
Pro-AS-3	4 adapters: LEMO-Y-connector (male to double female)
Pro-AS-4	4 adapters: LEMO-connector (female) ↔ LEMO-connector (female)
Pro-AS-5	4 terminators: 50 Ω, LEMO-connector (female)
Pro-AS-6	4 cable-adapters (15cm/6"): LEMO-connector (male) ↔ BNC-connector (female)
Pro-AS-7	4 cable-adapters (1m/3'3½"): LEMO-connector (male) ↔ BNC-connector (female)
Pro-AS-8	4 cable-adapters (2m/6'6¾"): LEMO-connector (male) ↔ BNC-connector (female)
Pro-AS-9	4 cable-adapters (1m/3'3½"): LEMO-connector (male) ↔ BNC-connector (male)
Pro-AS-10	4 cable-adapters (2m/6'6¾"): LEMO-connector (male) ↔ BNC-connector (male)
Cables/Terminal blocks for <i>Pro-OPT-16</i> and <i>Pro-TRA-16</i>	
ADwin-Cable-1	1 m extension cable, shielded, for 37pin <i>ADwin</i> D-SUB connectors, on one end socket, on the other a connector
ADwin-Cable-2	0.5 m extension cable, shielded, for 37pin <i>ADwin</i> D-SUB connectors, on one end socket, on the other a connector
ADwin-Cable-3	0.25 m extension cable, shielded, for 37pin <i>ADwin</i> D-SUB connectors, on one end socket, on the other a connector
ADwin-AT-37M	Terminal block for 37pin male D-SUB connectors

Software, Service

Software	
ADbasic	Fast real-time development tool for ADwin systems, version 5
TiCoBasic	Fast real-time development tool für ADwin-TiCo
ADcandb	Software for the conversion of CANdb signal forms into ADbasic real-time functions. (Bus monitoring, editor, CANdb viewer)
ADlab	Driver for measuring, controlling and monitoring with ADwin systems from MATLAB for MATLAB under Windows

Training and Customized Software Development

Training	We offer custom-designed training services of our systems. The purpose is to realize a concept together with our customers so that they will be able to develop their applications and to implement them in their program code.
Turnkey solutions for custom-designed software	With our longtime experience with custom-designed software we offer turnkey solutions for our customers. According to our customers' requirements we develop user interfaces, algorithms for measurement and automation tasks, we realize database connections, etc. Interested? Please send us your requirements.

General Conditions of the Company Jäger Computergesteuerte Messtechnik GmbH

The following General Conditions are contractual requirements for all agreements with the company Jäger Computergesteuerte Messtechnik GmbH (called "Jäger Messtechnik GmbH" hereafter). These terms will also be valid when a customer's order contains divergent conditions and Jäger Messtechnik GmbH does not contradict. Changes, supplementary, and second agreements need to be made in writing. The customer accepts the General Conditions when ordering the goods, at the latest however, with delivery of the goods.

These General Conditions are also valid for all development contracts which are considered accepted by Jäger Messtechnik GmbH, a supplementary agreement will be made in the case of a development contract as described below in "Conditions for Development Contracts".

Furthermore, if software is purchased we refer to the supplementary terms of the license agreement of Jäger Messtechnik GmbH.

1. Confirmation of Order

Alle Angebote der Jäger Messtechnik GmbH sind unverbindlich. Alle Aufträge, auch wenn sie von Vertretern der Jäger Messtechnik GmbH entgegengenommen werden, werden für die Jäger Messtechnik GmbH erst mit ihrer schriftlichen Auftragsbestätigung bzw. mit Auslieferung der Ware verbindlich.

2. Terms of Delivery, Prices

- 2.1 Liability passes to the customer at the moment the goods are handed over for delivery.
- 2.2 If Jäger Messtechnik GmbH delivers the goods—at the customer's request—not to the customer himself but to a third party, liability and costs pass to the customer at the moment the goods are handed over to the forwarding agent.
- 2.3 The decision about the method of delivery and the choice of the means of transport is left to Jäger Messtechnik GmbH. Additional costs for a special delivery method, requested by the customer, are charged to the customer. If the customer wishes to delay the delivery, liability passes to him at the moment the goods are announced to be ready for shipment.
- 2.4 Jäger Messtechnik GmbH guarantees that a transport insurance has been settled on its own expenses to insure the goods sufficiently against damages.
- 2.5 Customs duty, V.A.T. and other expenses for import into European or non-European countries are charged to the customer.
- 2.6 Jäger Messtechnik GmbH, even if it has agreed upon keeping schedules and deadlines, cannot be held liable for delays in delivery and performance due to force majeure and events which render delivery essentially more difficult or even impossible for Jäger Messtechnik GmbH—such as subsequently occurring difficulties in providing the material, breakdown in production, strike, lockout, shortage of personnel, shortage of means of transport, official regulations, etc.—even if they occur at suppliers or subcontractors of Jäger Messtechnik GmbH. This applies also to delays in delivery and performance caused by subcontractors of Jäger Messtechnik GmbH. In such cases, the customer as well as Jäger Messtechnik GmbH may cancel the contract fully or partially because of non-performance after an adequate time. In this case Jäger Messtechnik GmbH cannot assume any liability.
- 2.7 If suppliers of Jäger Messtechnik GmbH rise the prices after a contract has been concluded, Jäger Messtechnik GmbH may pass the price increase to the customers.

3. Software

- 3.1 The customer has a single, non-exclusive, and an individual right of use regarding the software of Jäger Messtechnik GmbH. In this regard we refer to the conditions in the license agreement for software.
- 3.2 If Jäger Messtechnik GmbH renders standard software purchased from a third party to the customer, the latter gets a non-exclusive right of use, for whose contents and performance the terms of use, agreed upon with the supplier, are substantial. These terms of use will be disclosed to the customer.

4. Warranty

- 4.1 Jäger Messtechnik GmbH assumes warranty for the goods delivered insofar as the goods will be upon its own discretion fully or partially upgraded or repaired, or they will be replaced free of charge.
- 4.2 If two attempts to repair or to replace the goods fail, the customer may choose between either allowance (price reduction) or conversion (rescission of the contract).
- 4.3 Costs for an investigation carried out by Jäger Messtechnik GmbH because of an unfounded complaint are charged to the customer's account.
- 4.4 Warranty for components purchased from a third party in order to carry out an order will be assumed in such manner that Jäger Messtechnik GmbH will only pass the supplier's warranty to the customer.
- 4.5 Jäger Messtechnik GmbH does not assume warranty for the suitability of the goods regarding a certain intended purpose, if the actual purpose cannot be deduced from written instructions, delivered with the goods or if the suitability for an actual purpose has not explicitly been confirmed in written form by Jäger Messtechnik GmbH. In any case the customer himself agrees to check in advance and separately the suitability of the goods for his own intended purpose.
- 4.6 After liability has been passed to the customer, no warranty is assumed for damages, resulting from faulty or negligent treatment, inappropriate changes and repair work by the customer or a third party, or resulting from chemical, electro-chemical or other electrical influences, provided that they are not caused by Jäger Messtechnik GmbH itself.
- 4.7 All warranty or guarantee claims expire 12 months after shipment.

5. Reservation of Title

- 5.1 All title rights for the goods delivered, are reserved for Jäger Messtechnik GmbH, until payment is fully effected and all outstanding balances and accounts payable have been settled, regardless of any legal ground.
- 5.2 The customer may sell, process, or rework the goods upon reserved title rights. But title does not pass to the customer by processing the goods, contrary to § 950 of German Civil Code (so-called "extended" reservation of title). If the goods are processed with other goods belonging to the customer or upon single reservation of title, title for the new product will entirely pass to Jäger Messtechnik GmbH.
If the goods are processed with other goods delivered upon extended reservation of title, Jäger Messtechnik GmbH will obtain the co-ownership for the new product. The invoice value (V.A.T. included) of the goods delivered will be in relation to the invoice value of the processed products (V.A.T. included) at the moment of processing. By the customer's taking charge of the goods, the title for the new products will pass to Jäger Messtechnik GmbH.

5.3 Already at that moment, all the customer's claims with their entire subordinated rights resulting from reselling the goods pass to Jäger Messtechnik GmbH – regardless of their original or reworked state. The terms explained under 4.2 apply correspondingly.

5.4 Goods delivered upon reserved title rights must not be pledged or assigned to someone as a security. The customer is not entitled to pass or to pledge his claims, resulting from reselling the goods in their originate or reworked state, to a third party.

6. Limited Warranty and Claim for Damages

6.1 The customer releases Jäger Messtechnik GmbH from all charges and claims of third parties, which have been caused by violation of copyrights, rights of use, rights of privacy or other protective rights by reworking the goods delivered of Jäger Messtechnik GmbH.

6.2 Deficiencies of the goods delivered by Jäger Messtechnik GmbH have to be announced immediately in written form, at the latest however, within seven days after the deficiencies have been brought to your notice.

6.3 Jäger Messtechnik GmbH and its employees do not assume liability – as far as permitted by applicable law - for injuries to persons, damages in property and assets, especially for indirect and consequential damage, i. e. business interruption, loss of business profits which arise for a customer. This applies to contractual as well as to non-contractual claims of the customer. Liability with regards to the product liability law remains unaffected.

6.4 In the case a customer rescinds a contract or does not keep his commitment to take over delivery, Jäger Messtechnik may claim damages because of non-performance. In addition Jäger Messtechnik GmbH may claim damages to the amount of 25 % of the entire purchase price. A proof of damages is in this case not necessary. If it is a special design made for the customer, he has to pay the entire purchase price.

7. Place of Performance

Place of performance for deliveries and payments is the commercial domicile of Jäger Messtechnik GmbH – Lorsch.

8. Place of Jurisdiction

The only place of jurisdiction for both parties is Bensheim. But Jäger Messtechnik GmbH may also institute legal proceedings at the customer's general place of jurisdiction.

9. Application Law

The relation between the contract partners is governed by the law of the Federal Republic of Germany only, to the exclusion of the UN purchase law agreement.

10. Miscellaneous

10.1 If some terms of these General Conditions will become or are completely or partially void, the remaining terms are legally binding. Jäger Messtechnik GmbH will legally replace them by an appropriate term, which corresponds most of all to the void term.

10.2 With publishing these General Conditions, all General Conditions published earlier by Jäger Messtechnik GmbH will no longer be valid.

Supplementary Conditions for Development Contracts

Object of the Order

The object of the order results from the contents of the corresponding individual order.

Execution of the Order

Jäger Messtechnik GmbH warrants the accurate and appropriate execution of the order, according to the present state of the art.

The customer will contribute to the successful execution of the order to the best of his abilities and will make available notably all necessary documents, his own knowledge, experience etc.

Success of the Development

Jäger Messtechnik GmbH does not assume liability for the success of a development, if the success has not or not completely been reached because of reasons which have not been discernible at contract conclusion.

Costs of Development/Time of Development

If Jäger Messtechnik GmbH recognizes that the order cannot be executed in the period of time agreed upon and/or at the price agreed upon, a supplementary agreement will be made by the contract partners about how the work will be continued and about the fact of paying the costs. If the contractual partners do not come to an agreement on this subject, Jäger Messtechnik GmbH may cancel the development contract and has the right to claim the charges for the development effort.

Secrecy, Publication

Jäger Messtechnik GmbH will not communicate customers' information - characterized as secret – to third parties, not even so after the development contract has been settled, as far as they are not known in public. The customer has the same obligation toward Jäger Messtechnik GmbH.

The customer may publish development results with mentioning the author and after prior agreement of Jäger Messtechnik GmbH, if there are no conflicting reasons, (e.g. endangering patent rights registration). If publishing is made for the purpose of advertizing, mentioning the author is on the request of Jäger Messtechnik GmbH not permitted.