

IMPAC PYROMETER ACCESSORIES

ELECTRICAL OPTIONS





Enhance Your Impac Pyrometer



Impac Pyrometer Electrical Accessories

No other pyrometer series offers the flexibility and performance of Advanced Energy's Impac line. Our solutions meet your toughest design challenges and ensure high product quality and reproducibility in applications ranging from simple to complex. Get the most out of Impac pyrometers with electrical accessories.

Featured Accessories

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Displays

Impac Digital Display Options

Specifications				
DA 4000 Series				
Description	Digital temperature display unit for all stationary Impac pyrometers. With integrated supply voltage for 2-wire pyrometers.			
Features	Input adjustable 0 to 20 or 4 to 20 mA			
	4 mm LED, 4-digits			
	Integrated 2-wire supply voltage			
Part Number	Supply Voltage	230 VAC	10 to 32 VDC	115 VAC
		3 890 650	3 891 120	3 891 220
DA 6000 Series				
Description	DA 6000 is a digital display with digital and analog input for digital and analog pyrometers. Dual limit switch. The DA 6000-N is a digital display with digital input for digital pyrometers. The DA 6000-T is a digital display for digital pyrometers, for measurement of the cooling-off time from 800 to 500°C (welding processes).			
Features	Temperature display: 5-digit 7-segment LED			
	Mode display: 4-digit alphanumeric LED			
	Analog interfaces: 0 or 4 to 20 mA input and output			
Part Number		DA 6000	DA 6000-N	DA 6000-T
	RS232	3 890 520	3 890 560	3 890 150
	RS485	3 890 530	3 890 570	-
Controller PI 6000				
Description	Extremely fast, digital, programmable PID controller for using in combination with a digital Impac pyrometer.			
Features	Extremely fast with 250 µs sampling time			
	Automatic PI self-tuning			
	For use with a digital Impac pyrometer as transducer			
Part Number	3 826 510			
Controller PI 6000-N				
Description	Fast programmable PID controller for fixed pyrometers with analog output.			
Features	Used for any pyrometers with analog output 0 or 4 to 20 mA as a transducer			
	Store 9 control programs with up to 20 temperature steps (segments)			
	Controlled directly using the buttons on the PI 6000-N			
Part Number	3 826 520			



DA 4000



DA 6000



PI 6000

Scanners

External Rugged Scanner Options

Specifications		
Description	These scanning attachments are primarily used for recording the maximum temperature of smaller targets such as thin oscillating wires which are not constantly in the pyrometer's beam or for finding scale-free spots on heavily scaled surfaces.	
Features	Scanning frequency adjustable from 1 to 10 Hz	
	Signal analyzed via the pyrometer's analog output (0 or 4 to 20 mA) or its serial interface (RS232 or RS485)	
	Scanning angle adjustable from 0 to 12°	
SCA 300		
Compatible With	Series 300 and 320	
Part Number	3 843 460	Quartz glass window, for pyrometers with Si detector (IS), or InGaAs detector (IGA), or extended InGaAs detector (IGA /23)
	3 843 470	CaF ₂ window, for pyrometers with extended InGaAs detector (IGA /23)
	3 843 480	ZnS window, for pyrometers with thermopile detector (IN)
SCA 5		
Compatible With	Series 5 and 6	
Part Number	3 843 490	Quartz glass window, for pyrometers with Si detector (IS), InGaAs detector (IGA), or extended InGaAs detector (IGA /23)
	3 843 500	CaF ₂ window, for pyrometers with extended InGaAs detector (IGA /23) or thermopile detector with 5 μm filter (IN /5)
	3 843 510	ZnS window, for pyrometers with thermopile detector (IN) or thermopile detector with 5 μm filter (IN /5)
SCA 140		
Compatible With	Series 140	
Part Number	3 843 520	Quartz glass window, for pyrometers with Si detector (IS), InGaAs detector (IGA), or extended InGaAs detector (IGA /23)
	3 843 530	CaF ₂ window, for pyrometers with extended InGaAs detector (IGA /23) or thermopile detector with 5 μm filter (IN /5)
	3 843 540	ZnS window, for pyrometers with thermopile detector with 5 μm filter (IN /5)



SCA 300



SCA 5



SCA 140

Power Supplies

Impac Power Supply Options

Specifications	
Power Supply NG DC	
Description	Switch mode DC power supply unit.
Features	Input: 100 to 240 VAC, 50 to 60 Hz
	Output: 24 VDC, 1 A
	Housing: Din rail mount housing, width 27 or 45 mm
	Safety Approval: IEC 60950-1 and UL 508C
Compatible With	All models of Series 5, 6, 12, 140, 300, 320, 500, 600 Scanners: SCA 5, SCA 140, SCA 300
Part Number	3 852 290
Power Supply NG AC	
Description	AC power supply unit.
Features	Input: 230 VAC ±10%, 50 to 60 Hz
	Output: 24 VAC, 750 mA
	Housing: Din rail mount housing, width 87.5 mm
Compatible With	All models of Series 6, 12, 140, and Highspeed
Part Number	Series 5: IS 5, IGA 5, ISQ 5, ISQ 5-LO, IS 5/F
	Scanners: ROT 5, ROT 10
	3 852 190
Power Supply NG 0D	
Description	Switch mode DC power supply unit.
Features	Input: 85 to 265 VAC, 48 to 62 Hz
	Output: 24 VAC, 600 mA
	Housing: Din rail mount housing, width 67.5 mm
Compatible With	All models of Series 5, 6, 12, 50-LO, and 140 Scanners: SCA 5, SCA 140, SCA 300
Part Number	3 852 540
Power Supply NG 2D	
Description	Switch mode DC power supply unit with 2 limit switches.
Features	Input: 85 to 265 VAC, 48 to 62 Hz
	Output: 24 VAC, 600 mA
	Limit switches: 2 change over contacts, max 5 A, 250 VAC
	Housing: Din rail mount housing, width 67.5 mm
Compatible With	All models of Series 5, 6, 12, 50-LO, 140, 320, and Highspeed
Part Number	3 852 550



NG DC



NG AC



NG 0D



NG 2D

Power Supply NG 0S	
Description	Lab DC power supply unit.
Features	Input: 100 to 240 VAC, 50 to 60 Hz
	Output: 24 DC, 1 A
	Housing: Plastic housing, 130 x 130 x 75 (l x w x h)
Compatible With	All models of Series 6, 12, and 140
	Series 5: IN 5 plus, IN 5/5 plus, IN 5/9 plus, IS 5, IGA 5, ISQ 5, ISQ 5-LO, IS 5/F
	Series 50-LO: IS 50-LO plus, IGA 50-LO plus
Part Number	3 852 530 (straight connector, German power plug)
	3 852 570 (90° connector, German power plug)
	3 852 490 (straight connector, US power plug)
	3 852 660 (90° connector, US power plug)
	3 852 560 (straight connector, GB power plug)



NG 0S

Adapters and Converters

Impac Adapters and Converters

Specifications	
USB-RS485 Adapter	
Description	USB ↔ RS485 adapter cable, 1.8 m, HS-version 4.5 Mbd.
Compatible With	Series 6, 12, and 320
Part Number	3 826 750
USB-RS232 Converter Cable	
Description	USB ↔ RS232 converter cable, 1.5 m.
Part Number	3 852 580
USB LabKit	
Description	RS485/USB adapter for lab usage with Series 320 pyrometers
Features	Includes power supply and cable (8-pin for digital pyrometers)
	Target light button and analog output
	Auxiliary energy 100 to 240 VAC
Part Number	3 852 610
I-7520 Converter	
Description	The I-7520 enables the connection of pyrometers with RS485 to a conventional RS232 interface at the PC.
Features	RS232 ↔ RS485 with automatic detection of direction
	Transfer rate 300 up to 115.200 baud
	Electrical isolation up to 3000 VDC
Part Number	3 852 430
Converter (4 to 20 mA into 0 to 20 mA)	
Description	Converter 4 to 20 mA into 0 to 20 mA, supply 24 VDC, for DIN rail.
Compatible With	IN 5, IN 5/5, IS 50-LO/GL, IN 300
Part Number	3 826 760
Line Voltage Adapter	
Description	Line voltage adapter US line plug to EU instrument connector (with protective earth).
Part Number	3 852 330
RS232/485-Profibus Converter	
Description	Impac protocol converter (RS232 or RS485) ↔ Profibus DP for 1 pyrometer.
Specifications	The RS485 – Profibus adapter is designed for the connection of a digital Impac pyrometer to the Profibus DP network. Devices equipped with RS232 and RS485 UPP interfaces can be connected to the adapter. The pyrometer can be read and parameters can be passed to it via the Profibus. The adapter operates as master on the RS485 bus and as slave on the Profibus network. The data is transferred between the pyrometer and the adapter via an RS485 or RS232 interface.
Part Number	3 852 440



USB LabKit



I-7520 Converter

UPP RS485-Profibus Converter	
Description	Impac protocol converter (RS485) ⇔ Profibus DP for up to 32 pyrometers.
Specifications	The RS485 – Profibus converter is designed for the connection of Impac digital pyrometers to the Profibus network. It is possible to connect up to 32 pyrometers with RS485 UPP-Interface to one converter. The converter operates as master on the RS485 bus and as slave on the Profibus network. The data is transferred between the pyrometer and the converter via an RS485 interface.
Part Number	3 852 460
Profibus Connector Set	
Description	Profibus connector set for Series 140-PB.
Compatible With	Series 140
Part Number	3 833 090
RS232/485-Profinet Converter	
Description	Impac protocol converter (RS232 or RS485) ⇔ Profinet for 1 pyrometer.
Specifications	The RS485 – Profinet adapter is designed for the connection of a digital Impac pyrometer to the Profinet network. Devices equipped with RS232 and RS485 UPP interfaces can be connected to the adapter. The pyrometer can be read and parameters can be passed to it via the Profinet. The adapter operates as master on the RS485 bus and as slave on the Profinet network. The data is transferred between the pyrometer and the adapter via an RS485 or RS232 interface.
Part Number	3 852 620
RS485-Profinet Converter	
Description	Impac protocol converter (RS485) ⇔ Profinet for up to 32 pyrometers.
Specifications	The RS485 – Profinet converter is designed for the connection of Impac digital pyrometers to the Profinet network. It is possible to connect up to 32 pyrometers with RS485 UPP-Interface to one converter. The converter operates as master on the RS485 bus and as slave on the Profinet network. The data is transferred between the pyrometer and the converter via an RS 485 interface.
Part Number	3 852 630
RS232/485-Ethernet Converter	
Description	Impac converter (RS232 or RS485) ⇔ Ethernet TCP/IP for up to 32 pyrometers.
Specifications	The RS232/485 – Ethernet TCP/IP – converter is designed for the connection of digital Impac pyrometers to the Ethernet network. Devices equipped with RS232 (max 1 device) and RS485 (1 to 32 devices) UPP interfaces can be connected to the converter. The pyrometers can be read and parameters can be passed to them via the Ethernet. The converter operates as master on the RS485 bus and as server on the Ethernet network. The data is transferred between the pyrometer and the converter via an RS485 or RS232 interface.
Part Number	3 852 650



Profibus Converter



Profinet Converter



Ethernet Converter

Other

Other Electrical Accessory Options

Specifications	
Galvanic Separator	
Description	Galvanic Separator for DIN-Rail-Mounting without power supply.
Part Number	3 890 610
Video Grabber	
Description	Video grabber with USB cable for Series 6.
Part Number	3 826 730
Set Video-Balun Passive	
Description	Set of 2x passive Video-Baluns with BNC connectors for transmitting video signals over standard inexpensive patch cable (eg. CAT5 cable). Maximum cable length: 300 m with color video for Series 6 pyrometers.
Part Number	3 826 740
I/O Box	
Description	I/O Box for pyrometers in connection with MultiTemp software with 8 out, 6 in, RS485.
Part Number	3 852 470
IO 8-6	
Description	IO module RS485 with 8 Inputs, 6 Relay outputs. The IO 8-6 can be used for input and output of digital signals. It consists of one module which can be mounted onto a DIN rail.
Compatible With	ISR 6-TI Advanced
Part Number	3 826 770
IA 2	
Description	Analog output module with 2 analog outputs (can only be used with IO 8-6).
Part Number	3 826 780



Galvanic Separator



IO 8-6 and IA 2



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