

Selection Guide

Product Catalogue

Temperature and process control instrumentation



Introducing West Control Solutions

Focused on providing valued temperature and process control expertise, global presence and support

West Control Solutions (WCS), a Fortive operating company, is home to PMA, West Instruments and CAL Controls. This leading group combined their resources and expertise as a single organisation to deliver innovative, cost-effective, and high-quality products that today's process automation marketplace demands.

From simple, entry-level devices to highly sophisticated, functionally-rich solutions, our comprehensive product portfolio includes single and multi-loop controllers, limit devices, indicators, SSRs, power controllers and transmitters along with recorders and tools for data acquisition.

WCS pride ourselves on being a dedicated global team of temperature and process control experts, who can provide in-depth application knowledge, and are always there to support our customers. As a result, our products are repeatedly used in control applications such as plastics machinery, ovens, furnaces, laboratory and test equipment, packaging machinery and food processing and many more.



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Single Loop Panel Mounted Controllers

Model	MAXVU	3300, 9300 & 9400	9500P	6100+, 8100+ & 4100+	6170+, 8170+ & 4170+	N2300	N6400	KS20-1	KS40-1, KS41-1 & KS42-1	KS50-1 & KS52-1	KS90-1 & KS92-1
		900E 900E	19500			2300	ёчоё 1111	300.0 300.0			
Product family	MAXVU	CAL	CAL	P-Series	P-Series	N-Series	N-Series	Blueport	Blueport	Blueport	Blueport
Page number	5	6	7	8	9	10	11	12	13	14	15
Front Format	•						•				•
1/32 DIN (24 x 48mm)	•	•	•			•	•			•	•
1/16 DIN (48 x 48mm)	•		•	•	•		•	•			
1/8 DIN (96 x 48mm)	•			•	•				●	•	•
1/4 DIN (96 x 96mm) 1/8 DIN horizontal	•			•	•				•	•	•
(48 x 96mm)				1/16 110mm.	1/16 110mm,				•		
Depth (behind panel)	70mm	107mm	107mm		other 100mm	110mm	110mm	112mm	118mm	118mm	118mm
Display	Large 2 x 4	1 or 2 digit	2 x 4 digit	2 x 4 digit	2 x 4 digit	1 x 4 digit	2 x 4 digit	1 x 4 digit LED	2 x 4 digit	2 x 4 digit	2 x 4 digit/
Display type	digit LED	LED ⁽¹⁾	LED	LED	LED	LED	LED	+ 1 x text	LED	LED	text/bar LED
Connectors Screw terminal - fixed	•		•	•	•	•	•		0	0	0
		•		•		•		•	U	U	U
Screw terminal - plug-in	:		:	•	:		:		_		
Spade terminals	:							<u>.</u>	0	0	0
Inputs Thermocouple/RTD	•	•	•	•	•	•	•	•	•	•	•
DC linear V/mA	•		•	•	•	•	•	•	•	•	•
				1 or 2	1 or 2	•		•	• 1 or 3	1 or 3	2 or 4
Digital input	•		•	+	÷		•	2 or 4		•	•
Remote setpoint	:		:	0	0		:	0	0	0	0
Outputs Max. number of outputs	3	2	3	3	4	3	3	6	3	5	6
Relay	•		•	÷	•	•	•	•		•	•
	0	0	•	0	0	•	0	0	0	0	0
SSR driver	0	0	0	0	0	•	0	0	0	0	0
DC linear			0	0	0		0	0	0	0	0
Triac	•		•	0	0		0			•	
Transmitter PSU	•			0	0			0	0	0	0
Features & Functions								On/Off, PID	On/Off, PID	On/Off, PID	On/Off, PID
Control type	On/Off, PID	On/Off, PID	On/Off, PID	On/Off, PID	VMD	On/Off, PID	On/Off, PID	VMD	VMD	VMD	VMD
Profiler	•		•				•	•	•	•	0
Retransmission output			0	0	0		0	0	0	0	0
Heater break alarm								0	0	0	0
RS485 Modbus comms	0	0	0	0	0	0	0	0	0	0	0
Software	MAXVU Configurator	CALgrafix	CALgrafix	Plus Series Configurator	Plus Series Configurator		•	BlueControl	BlueControl	BlueControl	BlueControl
Power Supply											
110 VAC	ο	ο	•	ο	0	0	ο	0	0	ο	0
230VAC	0	0	•	0	0	0	o	0	0	0	0
12VAC / DC	•	о	•	•	•	0	•	•		•	•
24VAC / DC	0	0		0	0	0	0	0	0	0	o
48V AC / DC				0	0		o				

• = Fitted

o = Option

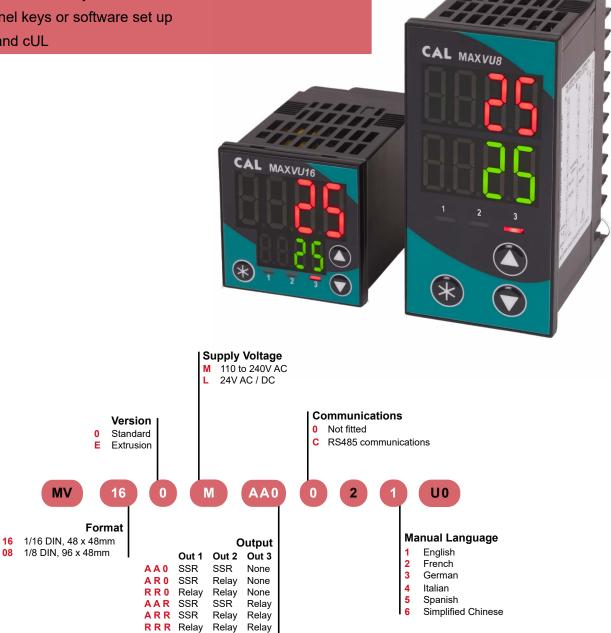
(1) 9400 display: 2 x 4 digit LED >>> **Contents**

MAXVU16 & MAXVU8 Compact Controller

The MAXVU is a cost effective temperature controller which is fast-to-configure, has improved display visibility and with only 70mm depth, reduces costs by minimising wiring and panel space.

Benefits and features

- 1/16 DIN (48 x 48 mm) and 1/8 DIN (96 x 48 mm) 70mm depth
- Large high visibility LED display
- Universal input for thermocouple, PT100, mV, V and mA sensors
- 2 or 3 outputs
- RS485 Modbus RTU communications
- Heat/cool control strategy
- Ramp/dwell with delay time
- · Front panel keys or software set up
- CE, UL and cUL



3300, 9300 & 9400 Easy-to-use Controllers

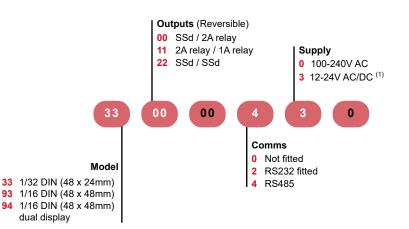
The CAL range provides a choice of compact, impact resistant temperature controllers.

The easy-to-use devices provide essential temperature control functionality including heat/cool operation and a simple ramp/dwell program. There is an integrated auto-tune feature for optimum PID settings and a unique dAC function to minimise overshoot.

Benefits and features

- 1/32 DIN (24 x 48 mm) and 1/16 DIN (48 x 48 mm), 107mm depth
- · High impact fascia with rubberised buttons
- Thermocouple, PT100 (2 wire) and mV sensor input
- 2 outputs
- RS232 or RS485 Modbus RTU communications
- Simple menu-driven setup
- · Single ramp/soak (dwell) program
- Heat/cool control strategy
- CE, UL, cUL, CSA and FM





(1) Models 3311, 9311, 9400, 9411 and 9422 are not currently available in low voltage 12-24V option.

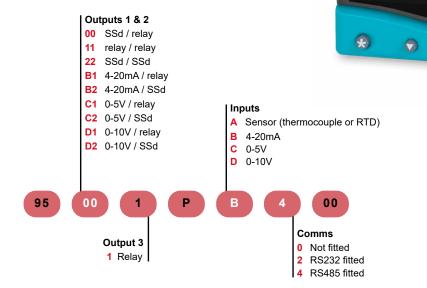
9500P 1/16 DIN Profiler

The CAL 9500P is ideal for applications requiring fixed value or ramping temperature profiles in a compact 1/16th DIN unit. The programmer allows up to 31 programs with up to an overall total of 126 segments.

Set up of the instrument can be carried out using the front buttons or alternatively with the CALgrafix software. The tool allows quick configuration and is easy to create recipes using the graphical 'drag and drop' feature. Users can also clone parameter settings of one unit to multiple instruments in the same network.

Benefits and features

- 1/16 DIN (48 x 48 mm), 107mm depth
- · High impact fascia with rubberised buttons
- Thermocouple, PT100 (2 wire), mA, V and mV sensor input
- 3 outputs
- RS232 or RS485 Modbus RTU communications
- Heat/cool control strategy
- Up to 126 segments shared in up to 31 Programs
- Profiler functions include event outputs, loop, call, hold back and 3 power recovery modes
- Simple menu-driven setup
- CE, UL and cUL



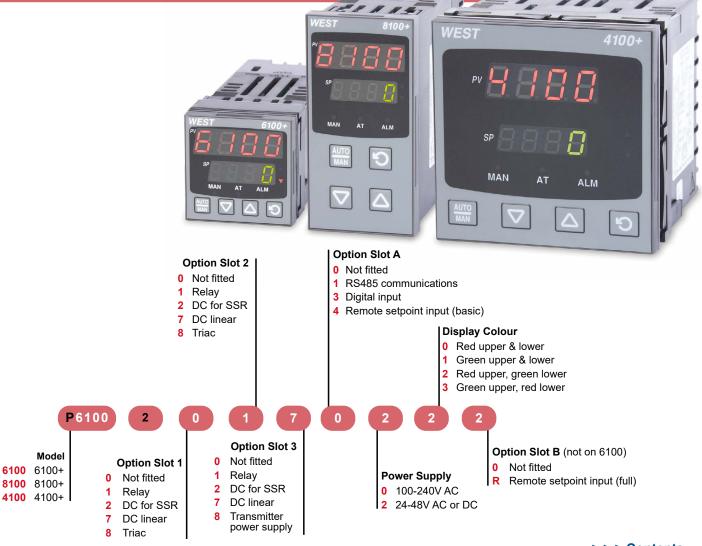
6100+, 8100+ & 4100+ Flexible PID Controller

The + series of controllers are used in many temperature and process control applications due to their versatility and ease-of-use. A wide range of input and output options include relay, SSR, transmitter power supply, linear, remote setpoint and digital inputs.

Control functionality includes remote and dual setpoint options, heat/cool control and setpoint ramping.

Benefits and features

- 1/16 DIN (48 x 48 mm), 110mm depth, 1/8 DIN (96 x 48 mm), 100 mm depth and 1/4 DIN (96 x 96 mm), 100mm depth
- Membrane fascia with common + series design
- Universal input for thermocouple, PT100, mV, V and mA sensors
- Up to 3 outputs
- · Wide range of options available
- RS485 Modbus RTU communications
- Heat/cool control strategy
- · Programming port for fast configuration using FTP software
- CE, UL, cUL and CSA



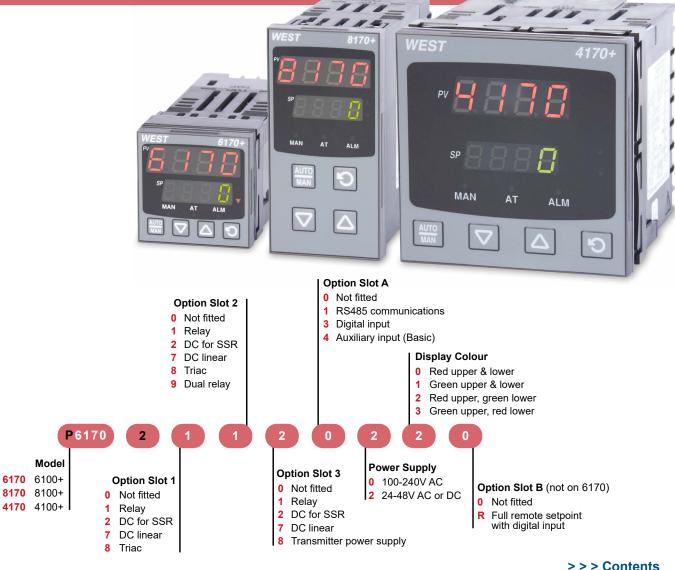
6170+, 8170+ & 4170+ Valve Motor Drive Controller

The 6170+, 8170+ and 4170+ have been designed for open loop valve motor drive (VMD) applications. They feature the common + series interface and greater field flexibility.

A unique VMD tuning algorithm continuously monitors the process to provide stable control at all times.

Benefits and features

- 1/16 DIN (48 x 48 mm), 110mm depth, 1/8 DIN (96 x 48 mm), 100 mm depth and 1/4 DIN (96 x 96 mm), 100mm depth
- · Membrane fascia with common + series design
- Universal input for thermocouple, PT100, mV, V and mA sensors
- Up to 4 outputs
- · Wide range of options available
- RS485 Modbus RTU communications
- Valve Motor Drive control strategy
- Programming port for fast configuration using FTP software
- CE, UL, cUL and CSA



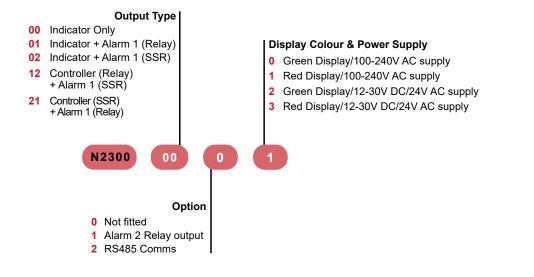
The West N2300 offers flexibility as a controller or an indicator. In addition to the main 4 digit display the N2300 benefits from status LEDs for process, alarm and configuration indication.

The large, tactile rubberised keys provide a more practical human interface which is complemented with a specially developed PID tuning algorithm, Easy-Tune, which continuously monitors and improves control. The N2300 has up to three outputs (relay or solid state driver) for alarm.

Benefits and features

- 1/32 DIN (24 x 48 mm), 110 mm depth
- · High impact fascia with rubberised buttons
- Universal input for thermocouple, PT100, mV, V and mA sensors
- Up to 3 outputs
- RS485 Modbus communications
- PID control with manual override tune capability for specialised applications
- · Simple operation and easy setup
- CE, UL and cUL



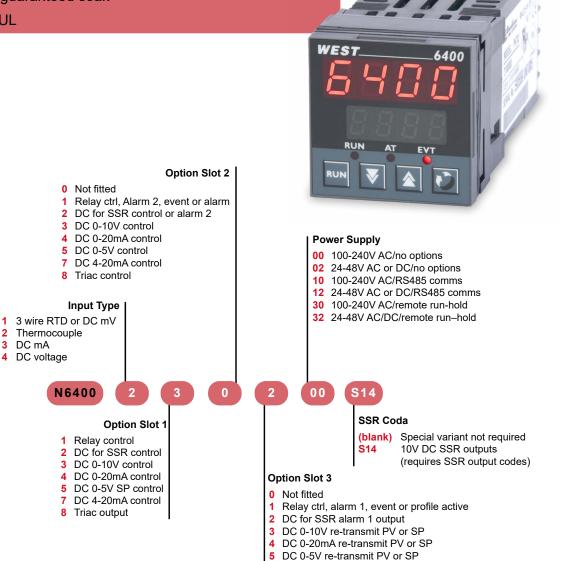


The N6400 is a powerful, single loop programmable controller. It offers profiling capability with 4 programs each with up to 16 free format segments.

The N6400 is easy-to-use, benefiting from an informative display providing maximum process information at a glance. A dedicated configuration port allows set up directly from a PC.

Benefits and features

- 1/16 DIN (48 x 48 mm), 110 mm depth
- Membrane fascia
- Universal input for thermocouple, PT100, mV, V and mA sensors
- Up to 3 outputs
- RS 485 Modbus communications
- Fast and accurate control via raPID fuzzy logic
- Profiler function 4 programs of 16 segments
- · 'Auto hold' facility, remote run hold, event output, power failure recovery and guaranteed soak
- · CE, UL and cUL



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DC 4-20mA re-transmit PV or SP

KS 20-1 1/16 DIN Advanced Controller

A compact, fully featured controller for demanding applications.

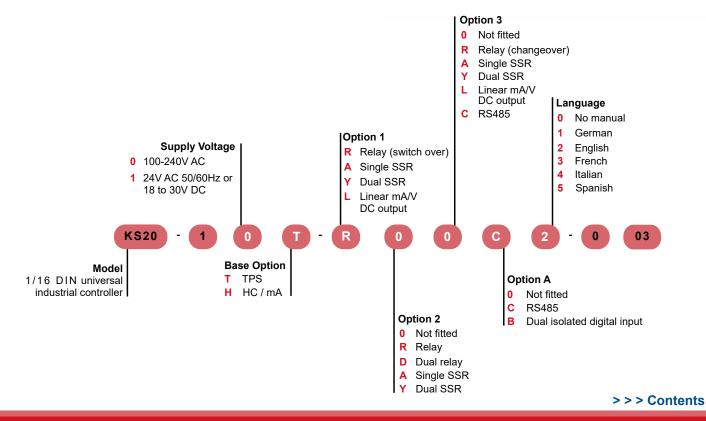
KS 20-1 is the only controller of its size, flexible with up to 6 outputs, 2 digital inputs, a remote setpoint input, RS485 communications and linked to best in class BlueControl[©] software.

The KS 20-1 offers many integrated features for unrivalled performance such as two PID sets to ensure reliable control over a wide setpoint range and separate PID for heat and cool strategies for optimised control and stability. Extensive flexibility is offered with 1 universal input and 1 optional process input, up to 4 digital inputs, 6 outputs and an inbuilt profiler.

Benefits and features

- 1/16 DIN (48 x 48 mm), 112 mm depth
- · Display supports backlight colour change and text
- Common BluePort family styling
- Universal input for thermocouple, PT100, mV, V and mA sensors
- Up to 6 outputs
- RS 485 Modbus communications
- PID heat/cool and VMD control strategies
- · Optional heater current or remote setpoint
- · Customer specific linearisation for sensors
- Transmitter power supply
- Profiler 16 profiles x 16 segments
- CE, UL and cUL





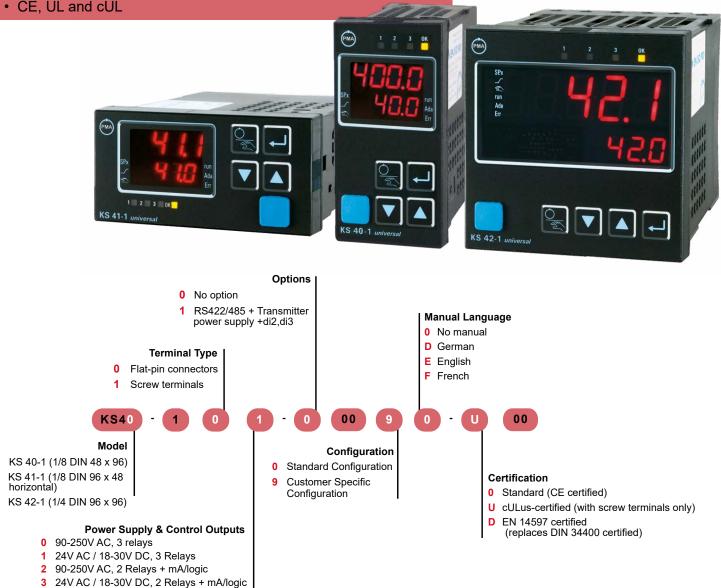
Single Loop Panel Mounted Controllers

KS 40-1, KS 41-1 & KS 42-1 Universal Controller

The KS 40-1, KS 41-1 and KS 42-1 are intended for universal and precise control tasks in all process applications. Embedded monitoring functions supervise sensors and heaters for preventative maintenance.

Benefits and features

- 1/8 DIN (horizontal 48 x 96 mm), 1/8 DIN (96 x 48 mm and 1/4 DIN (96 x 96 mm), 118 mm depth
- Common BluePort family styling
- · Universal input for thermocouple, PT100, mV, V and mA sensors
- Up to 3 outputs
- RS 422/485 Modbus communications
- PID heat/cool and VMD control strategies
- Optional heater current or remote setpoint
- BluePort® Front interface and BlueControl© software
- · Maintenance manager and error list
- · CE, UL and cUL



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1

2

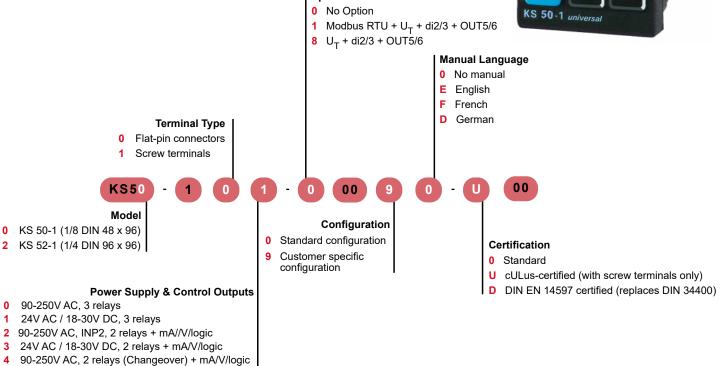
KS 50-1 & KS 52-1 Universal Controller with Special Features

The KS50-1 and KS52-1 are optimised for use in plastics processing machinery. The KS-50-1 can be adapted to every task: from high-speed hot runners to slow mould temperature control with special functions. Extra inputs and outputs make it possible to start special functions, for example, or to monitor temperature profiles without additional PLCs. Moreover, the Modbus interface can be used to quickly integrate the KS-50-1 controller family into networks.

Benefits and features

- 1/8 DIN (96 x 48 mm) and 1/4 DIN (96 x 96 mm) 118 mm depth
- Common BluePort family styling
- Programmable function key
- Universal input for thermocouple, PT100, mV, V and mA sensors
- · Customer-specific linearisation for non-standard sensors
- · Up to 3 outputs
- RS 422/485 Modbus communications
- · Optional heater current or remote setpoint
- PID heat/cool control strategy with water cooling
- BluePort® Front interface and BlueControl© software
- · Maintenance manager and error list
- Emergency operation after sensor break using % power output average
- Extended temperature range to 60°C
- CE, UL, cUL and EN 14597





Options

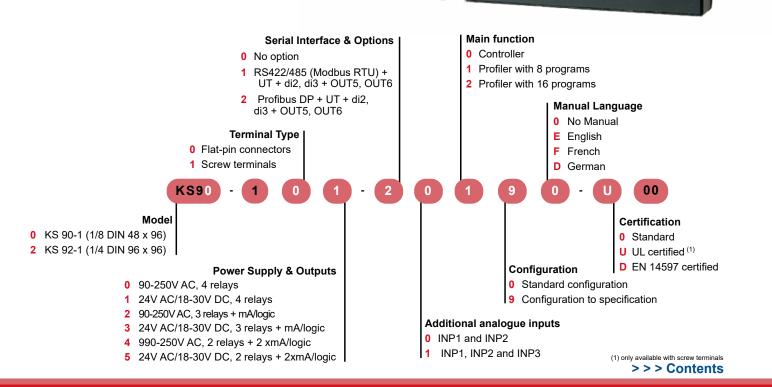
>>> Contents

KS 90-1 & KS 92-1 Advanced Controller

The industrial and process controllers of the KS 90-1 and KS 92-1 take over automatic control functions in all industrial sectors, precisely and economically. They offer the choice of simple on/off control, PID control or stepping motor control. A bargraph / text display provides the user with additional clear messages and process information.

Benefits and features

- 1/8 DIN (horizontal 48 x 96 mm), 1/8 DIN (96 x 48 mm) and 1/4 DIN (96 x 96 mm), 118 mm depth
- · Day/night display with additional text / bar line
- Common BluePort family styling
- Universal input for thermocouple, PT100, mV, V and mA sensors
- Optional second universal input
- · Customer-specific linearisation for non-standard sensors
- Up to 6 outputs
- RS 422/485 Modbus or Profibus communications
- PID heat/cool and VMD control strategies
- BluePort® Front interface and BlueControl© software
- Profiler function 16 programs x 16 segments
- · Maintenance manager and error list
- CE, UL, cUL and EN 14597



para func

KS 92-1 advanced

Multi-loop Controllers

Model	Pro-EC44	MLC 9000+	KS 98-2	KS Vario
		17777	1000 mm	
	0000	1111	230	-
Page Number	17	18	19	21
Control Loops				
Maximum number	2	32	30	30
Format				
1/4 DIN (96 x 96mm) panel mount	•		•	
DIN Rail behind panel	•	•		•
Display				
Display type	Mono LCD	None	Colour touch display	None
Connectors				
Screw terminal - fixed	•		•	
Screw terminal - plug In		•		
Spade terminals	•		o	
Plug in spring terminals				•
Inputs				
Process inputs	2	32	21 interal + Remote I/O	30
Thermocouple/RTD	•	•	0	0
DC linear V/mA	•	•	0	0
Digital input	9	0	24 interal + Remote I/O	5
Remote setpoint	0	ο	o	0
Outputs				
Max. number of outputs	9	48	26 interal + Remote I/O	300
Relay	•	0	•	0
SSR driver	0	0	0	0
DC linear	0	0	0	0
Triac	0			
Transmitter PSU	0		•	0
Features & Functions				
Control type	PID, ON/OFF	PID, ON/OFF	Fully programmable	PID, ON/OFF
Retransmission outputs	0	0	0	0
Heater break alarm		0	0	0
Logic capability			•	
Software	BlueControl	MLC 9000+ Workshop	ET/KS 98-2 and SIM/	Blue Control
Communication		Software	KS 98-2	
Modbus RTU	0	ο	o	0
Profibus	_	0	0	0
DeviceNet		0		0
		v	~	
CAN Open	~	~	0	0
Modbus TCP	0	0	0	0
Ethernet IP			0	0
Profinet			0	0
Power Supply	~		~	
110 VAC	0		0	
230VAC	0		0	
24VAC / DC	0	DC Only	0	DC Only
48V AC / DC	0			

• = Fitted

o = Option

Pro-EC44 Single/Dual Loop Advanced Controller

Pro-EC44 includes many features to ensure good control performance and easy to use. Single or dual loop capability in a single device, cascade, valve and ratio enhanced control with support for advanced features so Pro-EC44 has the flexibility to fit many application needs. In addition datalogging, trending, USB, Ethernet options add even more capability to an already powerful device.

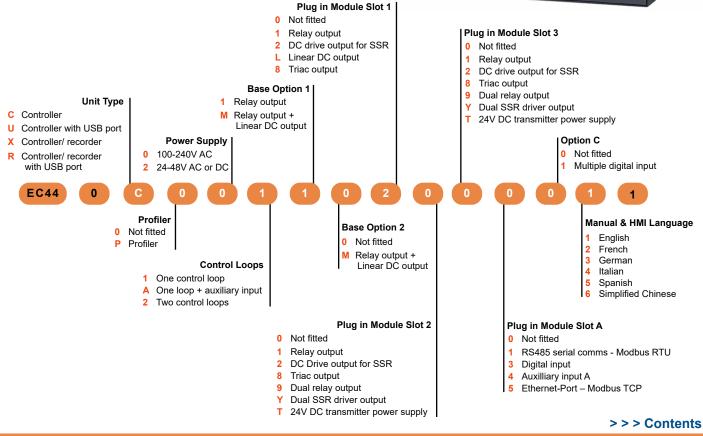
Benefits and features

- 1/4 DIN (96 x 96 mm), 117mm depth
- Graphical / text mono LCD display (red/green backlit LCD)
- One or two universal input for thermocouple, PT100, mV, V and mA sensors
- Customer-specific linearisation for non-standard sensors
- Up to 9 outputs

CE, UL, cUL

- RS 485 Modbus or Ethernet Modbus TCP communications
- USB configuration and data access
- · PID heat/cool and VMD control strategies
- · Gain scheduling, Ratio and Cascade control
- · Profiler function 64 programs with up to 255 segments
- Datalogger with real-time clock





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MLC 9000+ Modular Controller System

The MLC 9000+ system comprises of a bus module plus 1 to 8 control modules. 1, 3 & 4 loop control modules are available allowing up to 32 control loops per system. Heater break input is available on 1 and 3 loop modules. Communication modules for connecting to a PLC, HMI, PC or SCADA include Modbus, DeviceNet, Profibus and Modbus TCP.

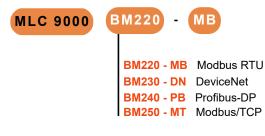
The MLC 9000+ features a hot swap facility, a module can be replaced and back in service quickly due to automatic reconfiguration.

Benefits and features

- Bus Module: 100 x 30 x 120mm format Loop Module: 100 x 22 x 120mm format (HxWxD)
- Universal (TC, RTD, DC linear V, DC linear mA/mV)
- Up to 48 outputs per system
- Modbus RTU, Modbus TCP, Profibus, DeviceNet communications
- Heat/cool control strategy
- · Quick to setpoint and fast reaction to process disturbances
- · On-demand and auto-tuning
- Set-up 32 loops in less than 30 minutes
- CE, UL and cUL



Bus Modules



Loop Modules

MLC 900

0	Z1200	00
	Z1200	One universal input, two SSR/relay outputs
	Z1300	One universal input, two SSR/relay outputs and one linear output or three SSR/relay outputs
	Z1301	One universal input, one heater break input, two SSR/relay outputs and one linear output or three SSR/SP relay outputs
	Z3611	Three universal inputs, one heater break input, six relay outputs
	Z3621	Three universal inputs, one heater break input, six SSR outputs
	Z3651	Three universal inputs, one heater break input, six outputs (three SSR/three relay)
	Z4660	Four universal inputs, six outputs (four SSR/two relay)
	Z4610	Four universal inputs, six relay outputs
	Z4620	Four universal inputs, six SSR outputs
		>>> Contents

KS 98-2 Multi-function Controller

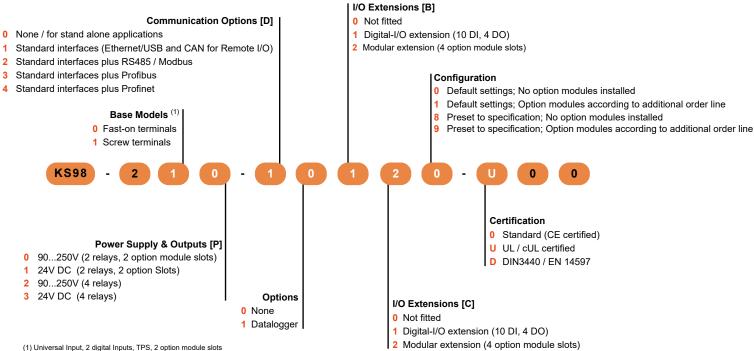
PMA's multi-function instrument KS 98-2 combines PID control, process monitoring, sequence control, data logging and alarms.

Function blocks from an extensive library can be used to build an application by easily selecting and connecting the blocks graphically using the "ET/KS98"-utility. This method is ideal for creating tailored control, including user interface pages with minimal effort. As a complete solution in a single unit, the KS 98-2 multi-function instrument helps to reduce programming, installation cost and control cabinet space.

Benefits and features

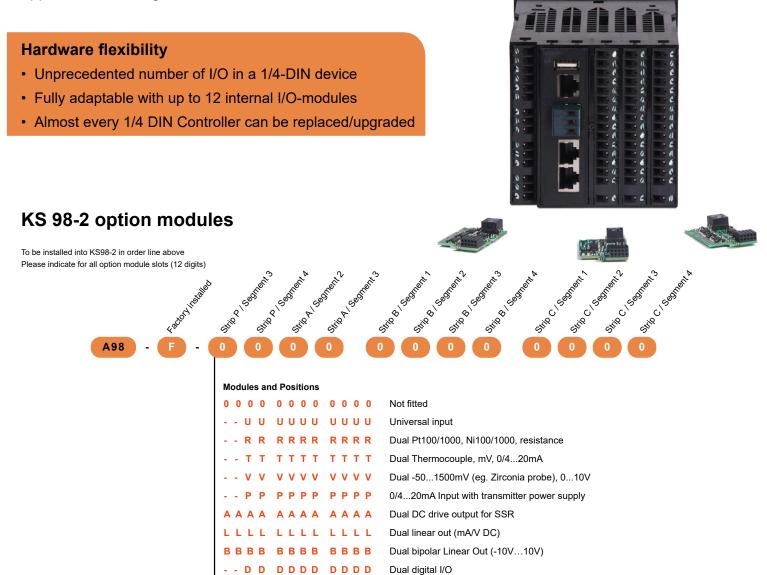
- Modular automation system in a 1/4-DIN (96 x 96mm), 118 mm depth
- 3.5 " colour touch-screen display
- Universal Input (TC, RTD, DC linear mA/mV)
- · Expandable with modular inputs and outputs
- Up to 20 additional process inputs supported
- · Up to 26 outputs
- Ethernet, USB, CAN, RS485, Profibus DP, Profinet
- · Measure, control, calculate, and record
- · Process visualization, operation, alarm and alerts
- · Comprehensive application-oriented functionality
- · Graphical programming utility with simulator
- CE, cULus, DIN EN 14597





KS 98-2 Multi-function Controller

KS 98-2 offers comprehensive modular input and output options to adapt the unit to the application needs. The unit is optimised to handle the precise measurements required in the process industry via I/O modules supporting a variety of sensor types and also have galvanic isolation. Additional signal conditioners and isolating amplifiers are not necessary in most applications, saving cost and less installation.



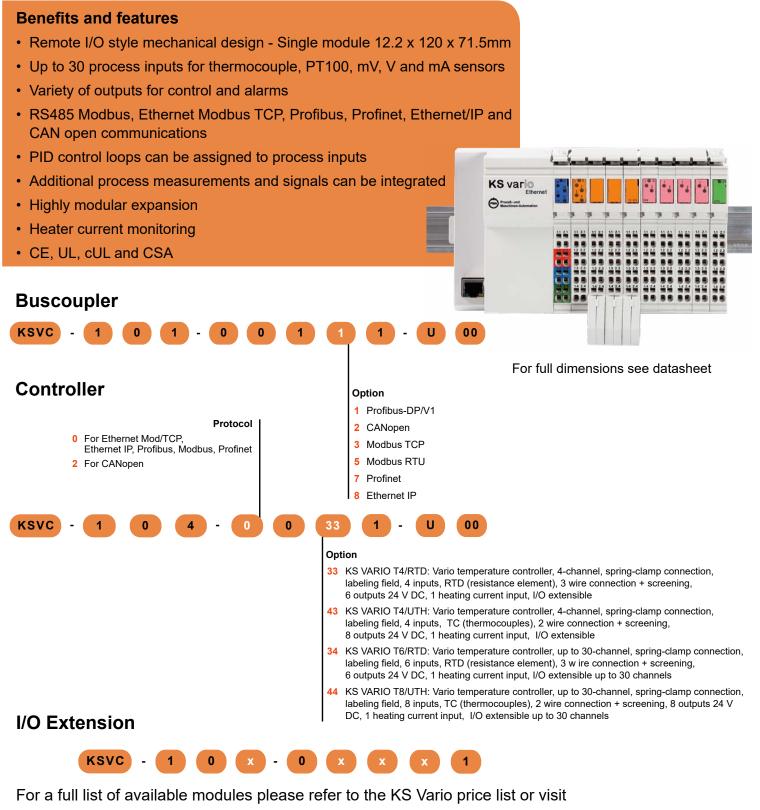
Separate module orders

A98 - M -	U	
	Availa	able Modules
	U	Universal input
	R	Dual Pt100/1000, Ni100/1000, resistance
	т	Dual Thermocouple, mV, 0/420mA
	v	Dual -501500mV (eg. Zirconia probe), 010V
	Р	0/420mA Input with transmitter power supply
	Α	Dual DC drive output for SSR
	L	Dual linear out (mA/V DC)
	в	Dual bipolar Linear Out (-10V…10V)
	D	Dual digital I/O

KS Vario Multi-loop Control System

The KS vario behind panel multi-loop controller system was specifically developed for machine temperature control in combination with PLC systems. To ensure easy integration to wider plant systems, many common fieldbus systems are supported.

By selecting the necessary I/O modules, the system can be configured for up to 30 control loops very economically and in precise increments.



www.west-cs.co.uk to get in contact.

DIN Rail Mounted Devices

Model	MAXVU Rail	KS 45	CI 45	SG 45	Rail Line I/O modules
Device Type	Controller/ Transmitter	Controller	Transmitter	Strain Gauge Transmitter	I/O
Page Number	23	25	26	26	27
Dimensions (mm)					
Height	107	99	99	99	99
Width	22	22	22	22	22
Depth	123	117	117	117	117
Display					
Display type	OLED	LCD	LCD	LCD	LED Indicator
Connectors	_			_	
Screw terminal - plug in	0	0	0	0	0
Spring terminal - plug-in	0	0	0	0	0
Inputs	_	-	_		• -
Thermocouple/RTD	•	•	•		• 0
DC linear V/mA	•	•	•		• 0
Strain gauge				•	
Digital inputs	•				0
Remote setpoint		•			
Outputs					
Max. number of outputs	3	3	3	2	8 per module
Relay	0	0	•		0
SSR driver	0	0	•		0
DC linear	0	o			0
Triac					
Transmitter PSU		o		•	
Features & Functions					
Control type	On/Off, PID	On/Off, PID	Measurement and alarm	Measurement and alarm	
Max. number of alarms	2	3	3	3	
Retransmission output	0	o	o	o	
Heater break alarm					
Software	MAXVU Configurator	BlueControl	BlueControl	BlueControl	BlueControl
Communication					
Modbus RTU	o	o	o	o	
Buscoupler module support (for major Fieldbus)		0	0	0	0
Power Supply					
110 VAC	0	0	0	0	
230VAC	0	0	o	o	
24VAC / DC	o	0	0	o	•

o = Option

MAXVU Rail Behind Panel Controller

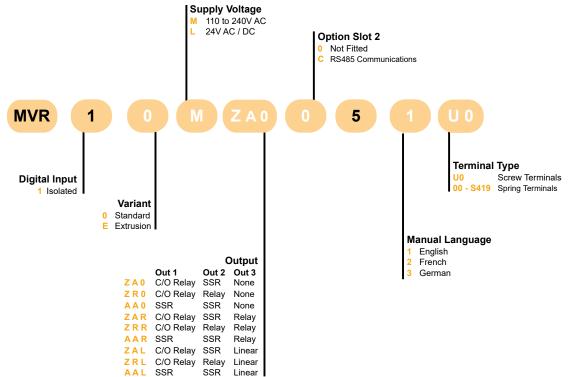
MAXVU Rail is a compact DIN-rail mount temperature controller/transmitter and limiter range for general industrial and scientific equipment requiring a reduced back panel footprint, centralised control or minimal front panel components.

Benefits and features

- DIN rail mounted, 107 x 22 x 103mm (HxWxD)
- · OLED Text / Icon matrix display
- Thermocouple, PT100 or linear DC sensor input
- Isolated Digital input
- · Up to 3 outputs
- RS485 Modbus RTU communications
- Heat/cool control strategy
- Quick setup menu
- Front configuration port
- CE, UL & cUL



MAXVU Rail Controller / Transmitter



Rail Line Process Instrumentation System

Rail Line offers high accuracy measurement modules and independent control, monitoring and limiter modules for decentralised automation installations. It provides connectivity to the common field bus systems.

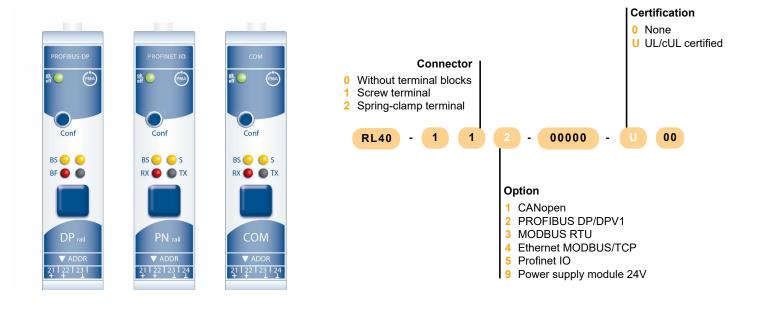
Benefits and features

- DIN rail mounted, 96 x 22.5 x 117.5mm (HxWxD)
- Field bus coupler for Profibus, CAN, Modbus TCP, Modbus RTU and Profinet
- Up to 62 modules in a system
- Configurable fail safe mode
- Stand alone function modules
- Hot swap capability
- Plug-in terminals
- CE, UL & cUL

Field bus couplers

- · Profibus DP
- Profinet IO
- Modbus/TCP
- CANopen
- Modbus RTU
- · And additional power supply for large systems





>>> Contents

DIN Rail Mounted Devices

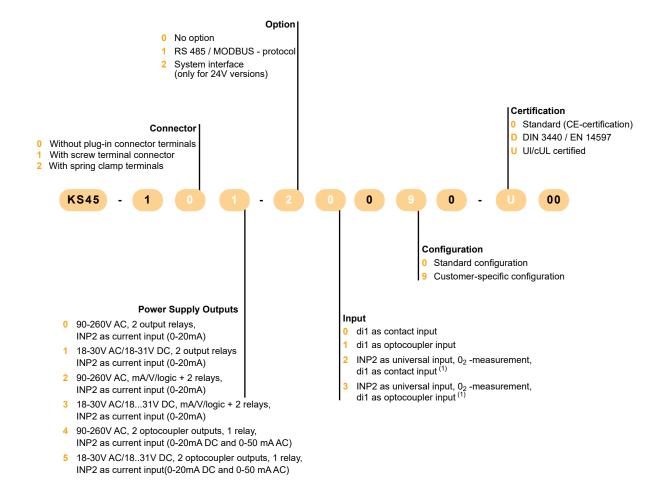
KS 45 Rail Line Universal Controller

The KS 45 process controller is a stand alone version for direct connection via RS485 Modbus or system version with buscoupler and inter-module connections permit additional controllers, transmitters and limiters to be fitted without additional power or communications wiring.

Benefits and features

- DIN-Rail Mounted 99mm x 22.5mm x 117.5mm (HxWxD),
- · LCD configuration and status display
- Universal input for thermocouple, PT100, mV, V and mA sensors
- · Optional second universal input
- · 3 outputs including one universal output
- RS485 Modbus RTU or system fieldbus communications
- · PID Heat/cool and VMD control strategies
- · Fast sampling rate
- Timer and programmer
- · Customer-specific linearisation for non-standard sensors
- CE, UL, cUL and Type tested to EN 14597



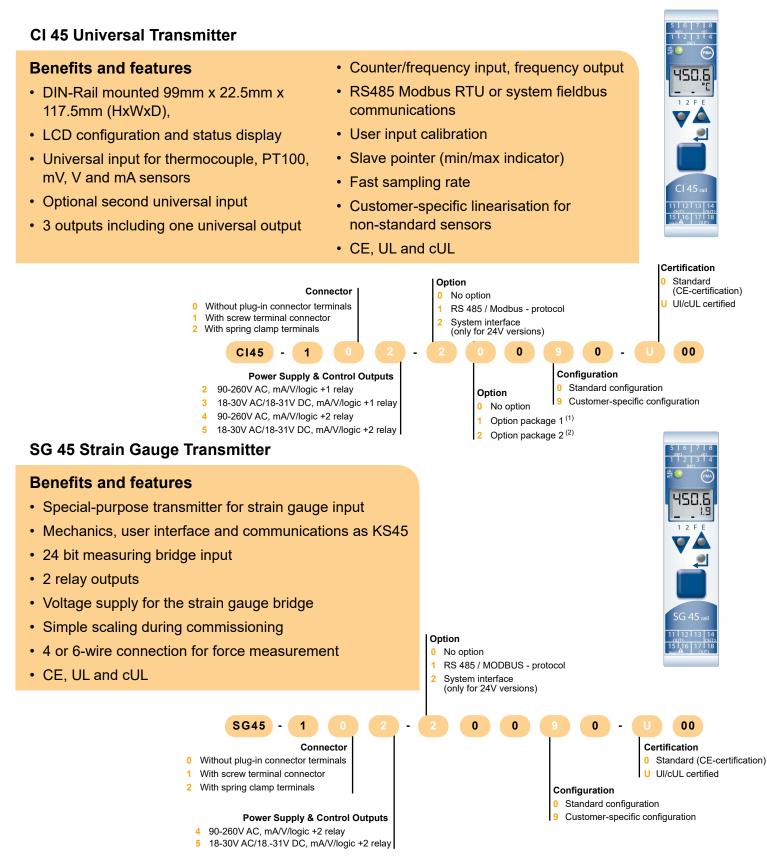


(1) Not on versions with optocoupler outputs (KS45-1x4... and KS45-1x5...) >>> Contents

DIN Rail Mounted Devices 25

CI 45 & SG 45 Rail Line Transmitter

High accuracy transmitters, stand alone version for direct connection via RS485 Modbus or system version with buscoupler and inter-module connections permit additional controllers, transmitters and limiters to be fitted without additional power or communications wiring.



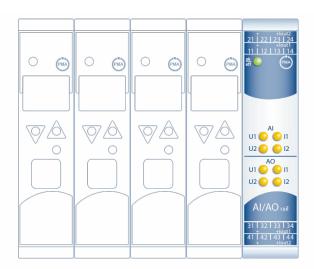
(1) Option package 1: additional universal input INP2, plus: O2-measuring; counter input; functions tare, sample & hold and integrator (2) Option package 2: additional to option package 1: digital input as optocoupler and frequency input / output

Rail Line Data Acquisition Modules

Rail Line offers a variety of sophisticated I/O modules for data acquisition and monitoring. They can be used in combination with the specialized function modules or just as remote I/O.

Rail Line I/O expansion modules

- Din-Rail mounted 99mm x 22.5mm x 117.5mm (HxWxD),
- · LED indicators for status
- Digital and analogue input & output modules
 - Pt 100 in 2 or 4-wire connection
 - Thermocouples
 - mA/V
 - Relays
 - Potential-free digital inputs
 - NPN/PNP inputs
- · Fits with system fieldbus communications
- · High precision analogue signals
- Reinforced galvanic isolation
- · Linearisation and measured value correction
- CE, UL and cUL



Analogue Inputs

- 4220 RL 422-0 Analogue inputs, 4 x I / U / TPS /potentiometer
- 4221 RL 422-1 Analogue inputs 2 x I/U galv. isolated
- 4230 RL 423-0 RTD 4 x Pt100 galvanic isolated 4231 RL 423-1 RTD 4 x Pt1000 galvanic isolated
- 4231 **RL 423-1** RTD 4 x Pt1000 galvar 4232 **RL 423-2** RTD 4 x Pt100/Pt1000
- 4232 **RL 423-2** RTD 4 x Pt100/Pt1000 4233 **RL 423-3** RTD 2 x Pt100 galvanic isolated
- 4240 RL 423-3 RTD 2 x Ft Tob galvanic isolated
- 4241 **RL 424-1** 2 x TC / O2 (mV)
- 4242 RL 424-2 4 x TC galvanic isolation 2/2
- 4610 RL 461-0 Combi module, 2 x AI (±U / ±I, 16 Bit)
 - differential inputs; 2 x AO (±U / ±I, 12 Bit)

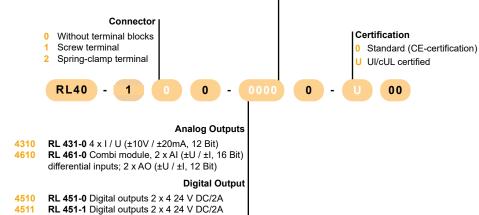
Digital Inputs

- 4420 RL 442-0 Digital inputs 2 x 4 24 V DC (pnp /contact, potential-free)
- 4421 RL 442-1 Digital inputs 2 x 4 24 V DC (npn /contact, potential-free)
- 4422 **RL 442-2** Digital inputs 8 x 1 24 V DC (individual supply)

(free wheeling diode)

RL 452-0 Relay outputs 4 x 230 V DC/5A

4430 **RL 443-0** 4 x Digital inputs (115/230V AC)



>>> Contents

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4520

Panel Mounted Indicators

Model	6010+ & 8010+	D280-1	EI2410	EI2041
				14000 _ ÷
Family	+ series	Blueport	Thermostat	Thermostat
Page Number	29	30	31	31
Front Format				
Thermostat format (29 x 71mm)			•	•
1/32 DIN (24 x 48mm)				
1/16 DIN (48 x 48mm)	0			
1/8 DIN horizontal (48 x 96mm)	0	•		
Depth	110mm / 100mm	118mm	71mm	71mm
Display				
Display type	4 digit LED	5 digit LED	4 digit LED	4 digit LED
Connectors				
Screw terminal	•	•	•	•
Spade terminals		•		
Inputs				
Thermocouple/RTD	•	0		
DC linear V/mA	•	0		•
NTC			•	
Outputs				
Max. number of outputs	3	3	0	2
Relay	0	0		0
SSR driver	0			
DC linear	0	0		
Triac	0			
Transmitter PSU	o	0		•
Features & Functions				
Alarm	•	•	Visual display only	•
Retransmission output	0	0		
RS485 communications	0	0		0
Software	Plus Series Configurator	BlueControl		
Power Supply				
110 VAC	o	0	0	0
230VAC	0	0	0	0
12VAC / DC	-		0	0
24VAC / DC	0	0	0	0
		5	5	.
48V AC / DC	0		1 I	

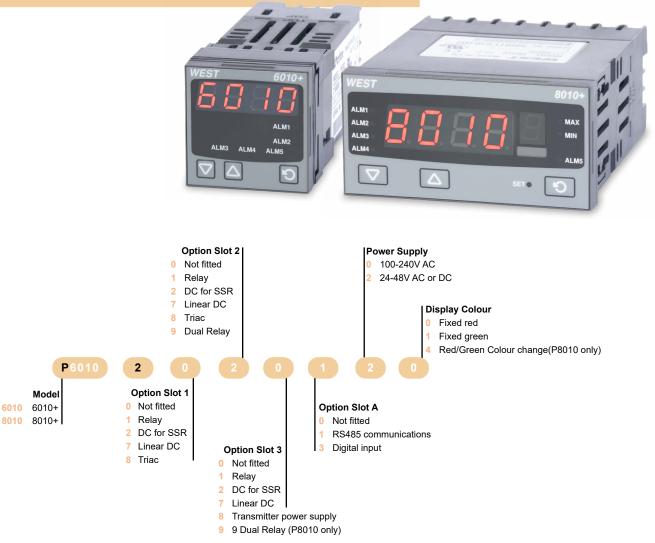
o = Option

The 6010+ and 8010+ digital panel process indicators are designed for optimal ease of use in a wide variety of temperature and related process applications.

Output options allow for PV retransmission or transmitter power supply and up to 4 alarm relays (latching or non-latching).

Benefits and features

- 1/16 DIN (48 x 48 mm), depth 110mm and 1/8 DIN horizontal (48 x 96 mm), depth 100 mm
- · Membrane fascia with common + series design
- Universal input for thermocouple, PT100, mV, V and mA sensors
- · Up to 4 outputs
- RS485 Modbus RTU communications
- · Latching or non-latching alarm outputs
- · Programming port for fast configuration using FTP software
- · Multi-point scaling and tare features
- CE, UL, cUL and CSA



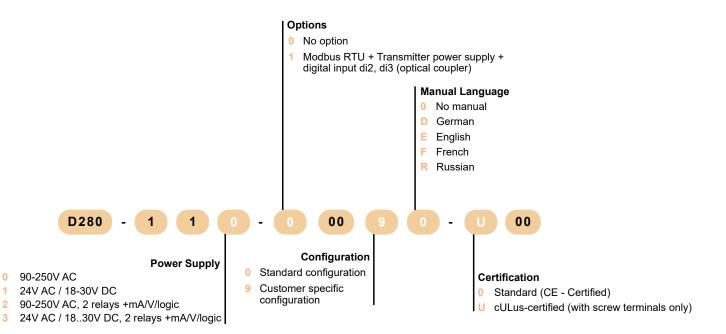
The PMA Digital 280-1 indicator ensures a fast reaction time with a scan rate of 100 ms.

The instrument offers customer-specific linearisation for special sensors (16 segments). The maximum and minimum values are stored and can be displayed when needed. In addition to an indicator the Digital 280-1 can also be used as a controller.

Benefits and features

- 1/8 DIN (horizontal 48 x 96 mm), 118mm depth
- 5-digit, 20mm large display
- Common BluePort family styling
- Universal input for thermocouple, PT100, mV, V and mA sensors
- · Up to 3 outputs
- RS485 Modbus RTU communications
- BluePort® front interface and BlueControl© software
- Maintenance manager and error list
- Widely configurable alarms
- CE, UL and cUL





Compact digital indicators for temperature and process measurement.

El2410 offers temperature indication within a range of -60 to 150°C using a NTC sensor.

El2041 rescales linear DC signals to display process data in the required units.

EI2410

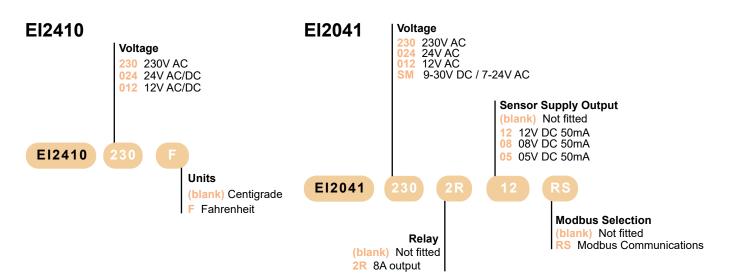
Benefits and features

- 35 x 77 mm format, 71mm depth (29 x 71 mm cutout)
- NTC sensor input
- Zero point shift input calibration
- Temperature units selection °F or °C
- Min and max values can be stored
- · Upper and lower adjustable alarm limits
- CE

EI24041

Benefits and features

- 35 x 77 mm format, 71mm depth (29 x 71 mm cutout)
- Input types (0-20mA, 4-20mA, 0-1V, 0-10V)
- Up to 2 relay outputs
- Scale adjustable between -1999 and 4000
- · Adjustable decimal point with process units
- · Min and max values can be stored on the display
- RS485 Modbus RTU communications
- Alarm function
- TPS output
- CE







Limit and Monitor Devices

Model	MAXVU Rail Limiter	6700+, 8700+	TB 45	TB 40-1	STB 50	STB 55
		& 4700+			⇔ 21.6°C	
					e hare e hare for any for an	
Family	MAXVU	+ Series	Rail Line	Blue Port		• • • • • • • • • • • • • • • • • • •
Page Number	33	34	35	36	37	38
Format						•
1/16 DIN (48 x 48mm)	4 9 9	•				* * *
1/8 DIN (96 x 48mm)		•		•	•	* * *
1/4 DIN (96 x 96mm)		•				•
DIN rail behind panel	•		٠			•
Depth (inside panel)	123mm	110mm / 100mm	118mm	118mm	119mm	110mm
Display	4 9 9					* * *
Display type	OLED	2 x 4 digit LED	LCD	2 x 4 digit LED	LCD	LCD
Connectors						•
Screw terminal - fixed		•		0		•
Screw terminal - plug-in	•		0			
Faston terminals				0		
Spring clamp terminals	8 8 8 8	* * * * * * * * * * * * * * * * * * *	0		•	
Inputs	8 8 8 8					* * * *
Thermocouple/RTD	•	•	•	•	•	•
DC linear V/mA	•	•	•	•		1000
Digital inputs	1	1 or 2	1	1 or 3	1	1
Outputs						* * * *
Max. number of outputs	3	3	3	3	3	3
Relay	•	•	•	•	•	•
SSR driver	0	0				9 4 5 7
DC linear	0	0	•	•	•	0
Triac		0				8 1 1 1
Transmitter PSU		0				* * *
Certification	8 8 8	* * * * * * * * * * * * * * * * * * *		* * * * * * * * * * * * * * * * * * *		8 4 4 5 6
=M	•	•				4 4 4 4 5 6 7
EN14597			•	•	•	•
SIL2					•	•
Features & Functions						8 9 9 9 9
RS485 communications	0	0	0	0		0 1 2 1 2
Software	MAXVU Configurator	Plus Series Configurator	BlueControl	BlueControl		 ************************************
Power Supply						 4 4 5 6 7 8 8 9 9
110 VAC	0	0	0	0	0	0
230VAC	0	0	0	0	0	0
24VAC / DC	0	0	0	0	0	0

o = Option

>>> Contents

Limit and Monitor Devices

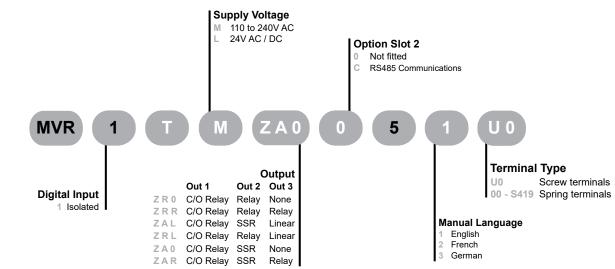
MAXVU Rail is a compact DIN-rail mount temperature limiter for equipment requiring a reduced back panel footprint, centralised control or minimal front panel components.

Benefits and features

- DIN rail mounted, 107 x 22 x 103mm (HxWxD)
- OLED Text / Icon matrix display
- Thermocouple, PT100 or linear DC sensor input
- · Isolated Digital input
- Up to 3 outputs
- RS485 Modbus RTU communications
- · Limit alarm plus separate warning
- Quick setup menu
- Front configuration port
- CE, UL & cUL & FM

Limit Device Approval: FM





MAXVU Rail Limiter

The + series of limiter are used in a broad range of temperature control applications where independent protection is required.

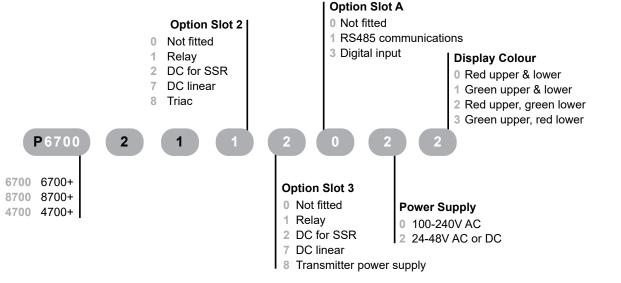
The devices have commonality with the + series controllers in both styling and operation so can both easily be integrated within the same equipment.

Benefits and features

- 1/16 DIN (48 x 48 mm), 110mm depth, 1/8 DIN (96 x 48 mm), 100 mm depth and 1/4 DIN (96 x 96 mm), 100mm depth
- · Membrane fascia with common + series design
- Universal input for thermocouple, PT100, mV, V and mA sensors
- · Up to 3 outputs
- · Wide range of options available
- RS485 Modbus RTU communications
- Valve Motor Drive control strategy
- Programming port for fast configuration using FTP software
- · Ideal for general industrial applications
- CE, UL, cUL and CSA

Limit Device Approval: FM





The TB 45 temperature monitor/limiter offers a stand alone version for direct connection via RS485 Modbus or system version with buscoupler and inter-module connections which permit additional controllers, transmitters and limiters to be fitted without wiring.

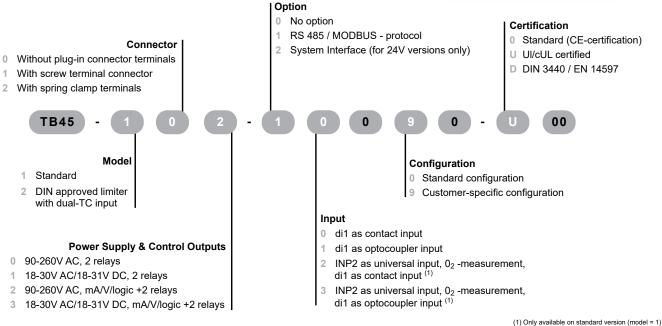
Benefits and features

- DIN-Rail Mounted 99mm x 22.5mm x 117.5mm (HxWxD),
- · LCD configuration and status display
- Universal input for thermocouple, PT100, mV, V and mA sensors
- · Optional second input
- · 2 alarm outputs and retransmission output
- RS485 Modbus RTU or system fieldbus communications
- · Limit alarm plus separate warning
- Meets requirement of TB and TW to EN14597
- CE, UL and cUL

For other Rail Line products see page 24.







Only available on standard version (model = 1).

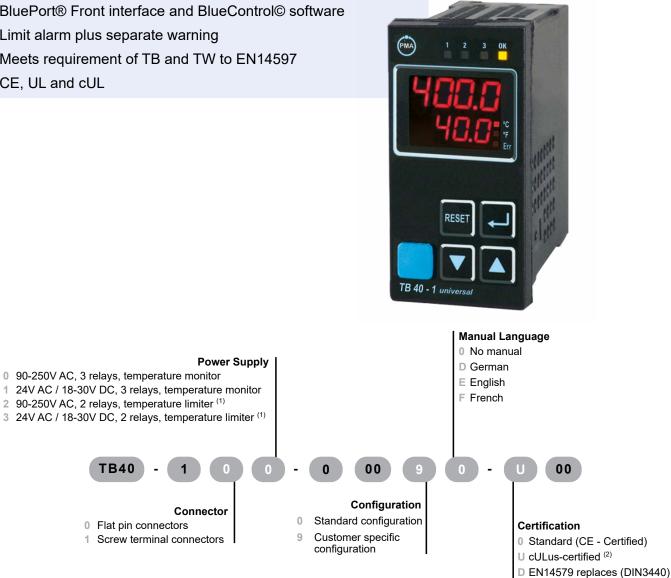
The TB40-1 limiter is used in a broad range of temperature control applications including furnaces and steam equipment where independent protection is required.

The devices have commonality with the BluePort controllers in both styling and operation so can easily be integrated within the same equipment.

Benefits and features

- 1/8 DIN (horizontal 48 x 96 mm), 1/8 DIN (96 x 48 mm) and 1/4 DIN (96 x 96 mm), 118 mm depth
- Common BluePort family styling
- Universal input for thermocouple, PT100, mV, V and mA sensors
- Up to 3 outputs
- RS 422/485 Modbus communications
- BluePort® Front interface and BlueControl© software
- · Limit alarm plus separate warning
- Meets requirement of TB and TW to EN14597
- · CE, UL and cUL





(1) TB (EN14597, 2009-1), not available with cULus (2) With screw terminals only, not available as Temperature limiter TB (EN14597, 2009-1)

Certified

>>> Contents

TB40

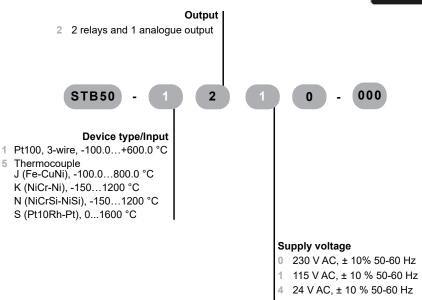
The STB50 safety temperature limiter is used as a panel mounted device when thermal processes must be monitored and the system must be transferred into a safe operational state in case of fault.

Benefits and features

- 1/8 DIN (96 x 48 mm), 119 mm depth
- Graphic-LCD-display, with white LCD-backlight
- Inputs RTD Pt100 or double-thermocouple
- · 2 alarm outputs and retransmission output
- Useable as Limiter and Exhaust gas Limiter
- Safety Limit alarm plus separate warning
- Memory function for error message
- Certified according to DIN EN 14597 SIL2

Limit Device Approval: SIL2, EN14597





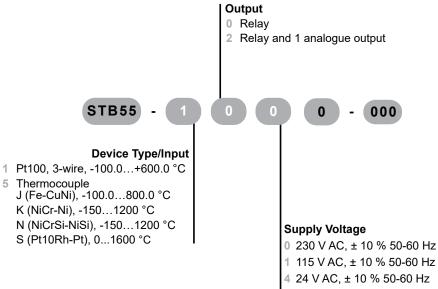
The STB55 safety temperature limiter is used as a behind panel device when thermal processes must be monitored and the system must be transferred into a safe operational state in case of fault.

Benefits and features

- Rail Mounted (100 x 50 mm), 110 mm depth
- Graphic-LCD-display, with white LCD-backlight
- Inputs RTD Pt100 or double-thermocouple
- 2 alarm outputs and retransmission output
- Useable as Limiter and Exhaust gas Limiter
- Safety Limit alarm plus separate warning
- Memory function for error message
- Certified according to DIN EN 14597 SIL2

Limit Device Approval: SIL2, EN14597





Digital Thermostats

Model	ET2001 & ET2011	ET2411 & ET2412	EDT2411, EDT2412 & EDT2423	ETM2432 Timer
Page Number	40	41	41	42
Display				
Display type	1 x 4 digit LED	1 x 4 digit LED	1 x4 digit LED	1 x 4 digit LED
Single line	•	•	•	•
Connectors				
Screw terminal	•	•	•	•
Inputs				
J thermocouple	0			
PT100	o			
NTC		•	•	
Digital input				3
Outputs				
Max. number of outputs	2	2	3	2
Relay	•	•	•	•
SSR	0			
Features & Functions				
Control type	On/Off, PID	On/Off	On/Off	Timed relay
Defrost function		•	•	
RS485 communications			0	
CAL-key programming			0	
Power Supply				
110 VAC	0	0	0	0
230VAC	0	0	0	0
12VAC / DC	0	0	0	0
24VAC / DC	0	0	0	0

ET2001 & ET2011 Industrial Digital Thermostats

The CAL thermostat range is a complete family of small format devices for basic heating or cooling applications.

The ET thermostats are cost-effective thermostat devices for both industrial heating or cooling applications, two output version also includes alarm function.

Benefits and features

- 35 x 77 mm format, 71mm depth (29 x 71 mm cutout)
- J Thermocouple, PT100 (ET2011 only)
- Up to 2 outputs
- · High current relay output available
- · Heating or cooling control strategy
- On/Off or PID (ET2011) Control
- CE



Two output - Relay & SSR Drive

Single output - Relay

Voltage Voltage 230 230V AC 230 230 V AC 110 110V AC 110 110 V AC 024 024 V AC 024 024 V AC SM 9-30V DC / 7-24V AC SM 9-30V DC / 7-24V AC ET2001 ET2011 J RT 230 Units Units C Centigrade (blank) Centigrade Sensor Type F Fahrenheit F Fahrenheit Sensor Type RT PT100/RTD J Thermocouple T Thermocouple Relay **Contact Current Selection** (blank) 8A relay 05 5A contact output P 16A relay 08 8A contact output 16 16A contact output

>>> Contents

40 www.west-cs.co.uk

ET2xxx & EDT24xx Commercial Digital Thermostats

The ET2411 and ET2412 are specifically designed for use with NTC sensors. They are easy to configure, have a large clear display for good visibility and a compact design that is fast to install.

The EDT defrost thermostats have additional features to ensure optimum control and performance of a refrigeration system such as compressor protection, defrost control, real-time clock, communications and fast CAL-Key memory programming.

ET2411 & ET2412 Digital Thermostats

Benefits and features

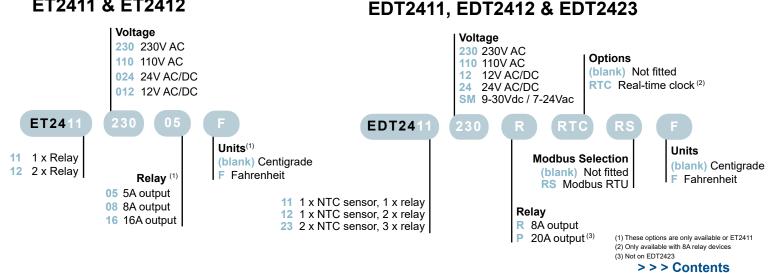
- 35 x 77 mm format, 71mm depth (29 x 71 mm cutout)
- NTC Sensor input -60 to 150°C
- · Up to 2 outputs
- · High current relay output available
- Heating or cooling On/Off Control
- CE

EDT2411, EDT2412 & EDT2423 Digital Thermostats

Benefits and features

- 35 x 77 mm format, 71mm depth (29 x 71 mm cutout)
- Up to Two NTC Sensor input -60 to 150°C
- · Up to 3 outputs
- · High current relay output available
- RS485 Modbus communications
- · Compressor, defrost and fan control
- Real-time clock option
- CAL-key configuration
- CE

ET2411 & ET2412







ETM2432 Digital Timer

In the same style as the thermostat range, a digital timer is available for associated monitoring and time-based control.

The ETM2432 is fully adjustable with nine timer modes and designed for easy integration within a control installation to fit the user's needs.

Benefits and features

- 35 x 77 mm format, 71mm depth (29 x 71 mm cutout)
- · External start, reset and hold digital inputs
- Dual contact timed output
- HH:MM or MM:SS
- Scale 0:01 to 99:59 minutes 0:01 to 99:59 hours
- · Adjustable increasing and decreasing steps
- · Time remaining displayed
- Start/stop control from front panel
- · Upper and lower adjustable timer limits
- CE



Voltage 230 230V AC 110 110V AC SM 9-30V DC / 7-24V AC



Power Controllers

Model		Relay S		- - -	Relay C	
	1-phase	2-phase	3-phase	1-phase	2-phase	3-phase
Page Number	44	44	44	45	45	45
Load	····· • • • • • • • • • • • • • • • • •	1 				
Max voltage 480V	: •	•	•	•	•	•
Max voltage 600V	•	•	•	•	•	•
Max voltage 690V	● ≥ 60A	● ≥ 60A	● ≥ 60A	● ≥ 60A	● ≥ 60A	● ≥ 60A
Single phase	•			•		
3 phase load star no neutral or delta		•	•	• • 8	•	•
3 phase load star with neutral		• •	•	•	• •	•
3 phase load open delta			•			•
Input Type						_
SSR 4:30VDC 4:20 mA	•	•	•	•	•	•
0:10 Vdc	0	0 0	0 0	•	•	•
10KΩ potentiometer	Ŭ	ÿ		•	•	•
Communication command		1	1	0	0	0
Firing		1	2 - -	\$	<u>*</u>	
Zero crossing / with softstart	• / -	• / -	•/-	• / •	• / -	• / •
Single cycle / with softstart	:	<i>l</i>	<i>l</i>	•/•	1 <i>l</i>	
Burst firing / with softstart	o ⁽¹⁾ /_	o ⁽¹⁾ / _	o ⁽¹⁾ / _	•/•	• / -	• / •
Half cycle / with softstart				• / •		
Phase angle / with softstart				• / •		• / •
Delayed triggering / with softstart				• / •		• / -
Control Mode		•	•	•	• • •	
Voltage U				•	•	•
Square voltage U ²		:	• • •	•	•	•
Current I				•	•	•
Voltage X current (power) Uxl		-		•	•	•
Option						
Current limit				0		0
Heater break + thyristor short circuit Fuse & fuse holder	o o ≤ 40A	∘ ∘ ≤ 40A	o o ≤ 40A	o ● ≤ 40A	∘ ● ≤ 40A	o ● ≤ 40A
Integrated fixed fuses	• ≤ 40A • > 40A	• ≤ 40A • > 40A	• ≤ 40A • > 40A	● ≤ 40A ● > 40A	● ≤ 40A ● > 40A	● ≤ 40A ● > 40A
Datalogging function	• ~ 40A	• - 40A	• > 40A	• > 40A 0	0 × 40A	• > 40A 0
Energy totalizer				0	0	0
Comm.	·····			±		
OLED-display with clear text and key pad	····· <u>-</u>	<u>.</u>	I	•	•	•
PC configuration software + Mini-USB	**************************************	<u>2</u>	2 - -	•	•	•
Modbus RTU		I	1	0	0	0
Modbus RTU + ProfiBus DP		1 •		0	0	0
Modbus RTU + Profinet				0	0	0
Modbus RTU + Modbus TCP				0	0	0
Approvals				• • 8		
CE EMC	•	•	•	•	•	•
cUL	 not with 690 V 	 not with 690 V 	 not with 690 V 			
Current						
30 A	not with 690 V	not with 690 V	not with 690 V		not with 690 V	not with 690 V
35 A	 not with 690 V not with 600 V 	 not with 690 V not with 600 V 	 not with 690 V not with 600 V 	 not with 690 V not with 600 V 	not with 690 V	 not with 690 V not with 600 V
40 A	● not with 690 V	 not with 690 V 	 not with 690 V 	not with 690 V	not with 690 V	 not with 690 V not with 600 V
60 A 75 A	-	 only with cUL 	 only with cUL 	 not with 690 V 	 not with 690 V only with cUL 	 not with 690 V only with cUL
90 A	•	not with cUL	not with cUL	• not with 690 V	not with cUL	not with cUL
120 A	•	•	•	 not with 690 V 	•	• Hot with COE
150 A	•	•	•	 not with 690 V 	•	•
180 A	٠	•	•	• not with 690 V	•	٠
210 A	•	•	•	 not with 690 V 	•	•
300 A	•	•	•	•	•	•
350 A			•			
400 A	•	•	•	•	•	•
450 A		•	•	: :	•	•
500 A	•	•	•	•	•	•
600 A	•	•		•	•	not with cUL
700 A	•	. •	:	•	. •	 not with cUL

Fitted

o = Option

(1) 4, 8, 16 Cycles, only with analogue input >>> Contents

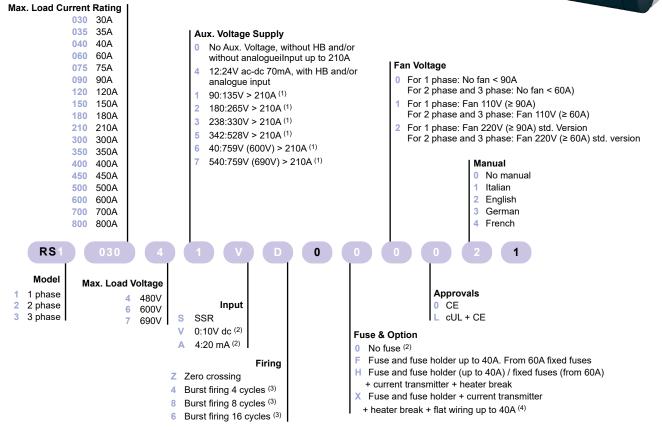
Relay S - 1PH, 2PH & 3PH Basic Power Controllers

Relay-S thyristor power controllers can be used in the variants on / off control (digital switching input) and pulse packet operation (analogue input). The power controllers are designed for minimum space requirements and low wiring costs.

Benefits and features

- · Compact design, see data sheet for dimensions
- Input signal: SSR, analogue
- Load 30 to 800A, up to 690V
- Resistive loads and infrared lamps with medium and long waveform
- · Zero crossing or burst firing mode
- · Heater break alarm
- Internal fuses with easy access
- · CE, UL optional





 Load voltage must be included in Selected Voltage Auxiliary Range for units > 210A
 With analogue input (0:10Vdc, 4:20mA) it is necessary to have the fuse (1 phase also the fuse holder on units =< 40 A) (3) On at 50% power demand; Available only with analogue input
(4) Available up to 40A. With flat wiring it is necessary to use TU-RS1 (2;3) terminal unit

>>> Contents

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Relay C - 1PH, 2PH & 3PH Advanced Power Controllers

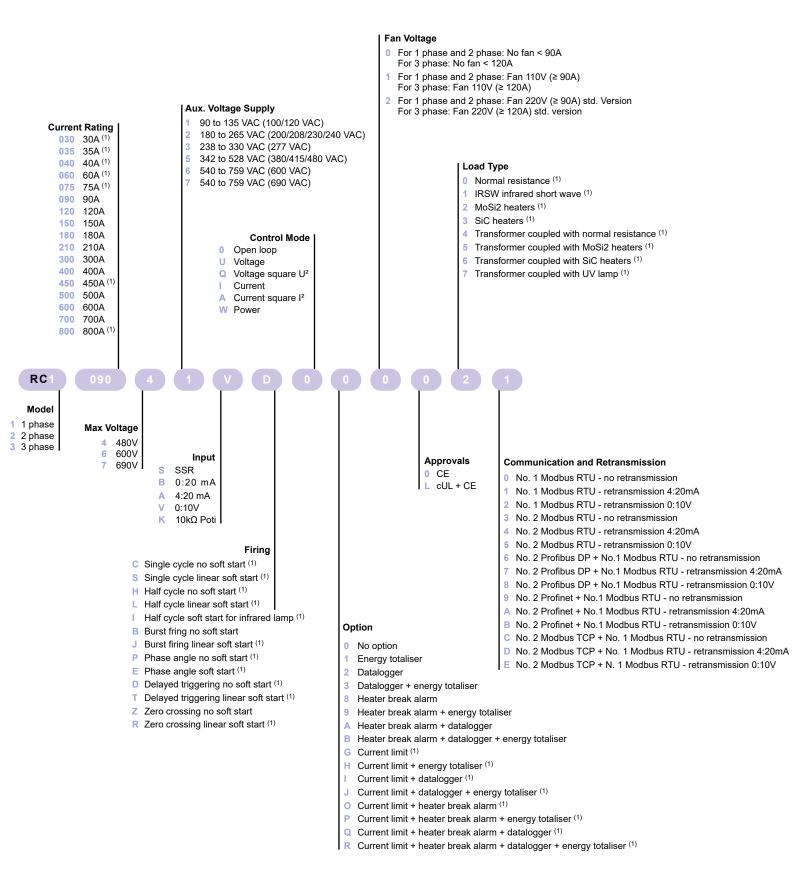
Advanced load management for 1, 2 or 3 phases up to 800A. These devices include enhanced capability for a wide range of firing modes, improved performance, protection, monitoring and connectivity. The range supports connection to a user friendly commissioning tool for maximum visibility.

Benefits and feature

- · Compact design, see data sheet for dimensions
- OLED text display
- Input signal: SSR, analogue
- Load 30 to 800A, up to 690V
- · Resistive, inductive loads and infrared lamps with short to long waveform
- RS485 Modbus, Profibus, Profinet communications
- USB configuration port
- Zero crossing, phase angle or burst firing mode
- Load monitoring and short-circuit alarm
- Integrated data logging, energy totalizer
- Internal fuses with easy access
- CE, UL optional



Ordering code



(1) Not available for all combinations of part numbers. Please refer to the datasheet for further details

Paperless Recorders

DataVU 6 Paperless Recorder

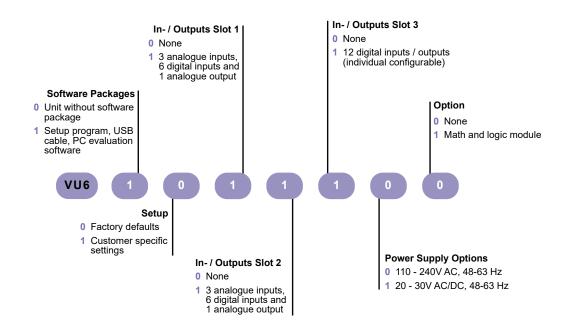
The DataVU 6 paperless recorder features a resistive touchscreen and an intuitive, icon-based operation and visualisation concept that makes it very easy to use.

DataVU 6 supports up to 6 internal channels and up to 24 total by adding external I/O.

Benefits and features

- 144 x 144 x 119 mm (H x W x D)
- TFT display with touch operation
- Up to 6 internal analogue inputs
- Up to 2 analogue outputs
- RS485 Modbus and Modbus TCP communications
- Modbus master function
- 18 external analogue and digital channels
- 1 GByte internal data memory
- · Horizontal and vertical line graph
- CE, UL and cUL





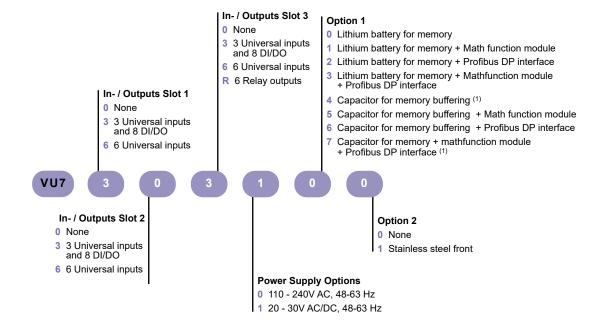
DataVU 7 Advanced Paperless Recorder

The DataVU 7 paperless recorder features a high contrast TFT display and an intuitive dial operation. The unit supports up to 18 internal channels and up to 72 total by adding external I/O. The evaluation software toolkit allows easy creation of reports and simplifies configuration.

Benefits and features

- 144 x 144 x 200 mm (H x W x D)
- Large TFT colour display (5.7")
- Up to 18 internal analogue inputs
- Up to 7 relay outputs and/or up to 24 digital I/O
- RS485 Modbus, Profibus and Modbus TCP communications
- Modbus Master function
- RS232 barcode interface
- Password securty protection
- Supports 54 external analogue channels
- Horizontal and vertical line graph
- CE, UL and cUL





Paperless Recorders

Pressure Transmitters

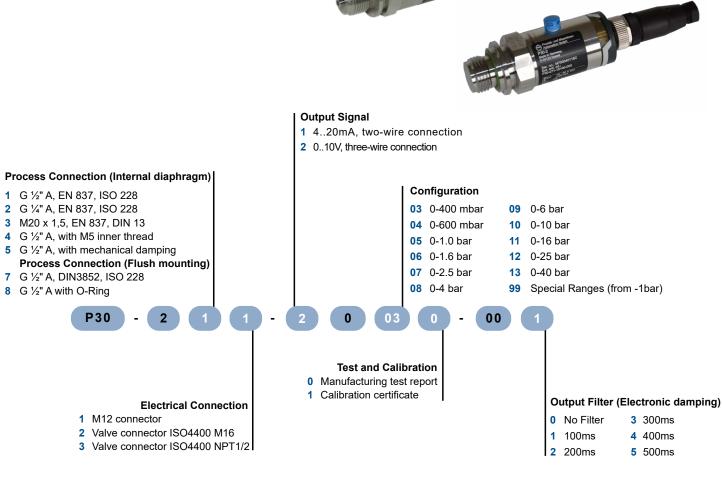
P30-2 Pressure Transmitter

Industrial pressure transmitters for safe measurement and monitoring of many applications including gases, vapours and liquids. Designed to withstand harsh environments in the process industry.

P30-2 is suitable for applications up to 40 bar gauge pressure.

Benefits and features

- Premium Pressure Transmitter for gauge pressure measurement with 3 years warranty
- · High repeatability and long-term stability
- · High overload resistance
- Measuring ranges up to 40 bar (600psi)
- · Customer specific measuring ranges available
- · Flush mounted or manometer connection
- Housing and connection made from 316L

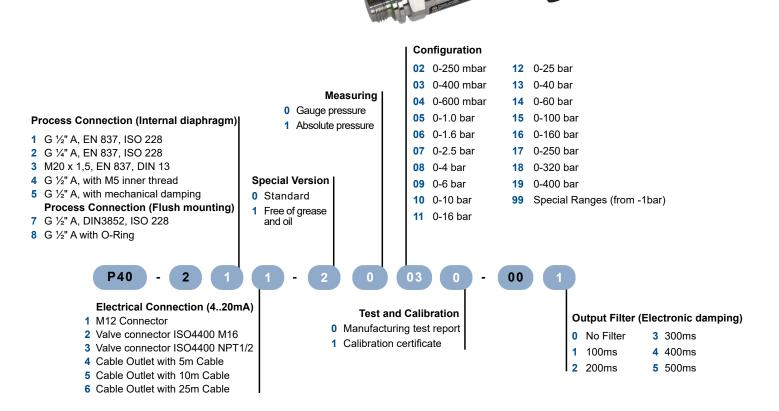


Industrial pressure transmitters for safe measurement and monitoring of many applications including gases, vapours and liquids. Designed to withstand harsh environments in the process industry.

P30-2 is suitable for applications up to 400 bar gauge and absolute pressure with excellent accuracy and repeatability.

Benefits and features

- Premium Pressure Transmitter for gauge and absolute pressure measurement with 3 years warranty
- · High repeatability and long-term stability
- · High overload resistance
- Measuring ranges up to 400 bar (6000psi)
- · Customer specific measuring ranges available
- · Flush mounted or manometer connection
- Housing and connection made from 316L



For the full range please refer to the Pressure Transmitters brochure or visit **www.west-cs.co.uk** to get in contact.

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West Control Solutions is part of the Fortive Corporation. Specifications are subject to change without notice, as a result of our continual development and improvement, E&OE.

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