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Panel meter selector chart

Product range	 CUB 5 red ipon	 PAX series red ipon	 PAX 2 Series red ipon	 3200 series 3216 Eurotherm. by Schneider Electric	 3200 series 3208 Eurotherm. by Schneider Electric	 3200 series 3204 Eurotherm. by Schneider Electric
Catalogue page	268-269	270-274	275	278-279	278-279	278-279
Dimensions	h39 x w75mm	1/8 DIN h48 x w96mm	1/8 DIN h48 x w96mm	1/8 DIN h48 x w48mm	1/8 DIN h96 x w48mm	1/8 DIN h96 x w96mm
Supply voltage	24V d.c.	24V d.c. or 100-240V a.c.	24V d.c. or 100-240V a.c.	100-240V a.c.	100-240V a.c.	100-240V a.c.
Comments	—	—	Dual display	Dual display	Dual display	Dual display
Counting/totalizing	●	●	●	●	●	Timer
Preset counter	●*	●*	●*	—	—	—
Batch counter	●*	●*	●*	—	—	—
Rate indication	●	●	●	—	—	—
Rate control	●*	●*	●*	—	—	●
Elapsed time	●	●	●	●	●	Timer
Time control	●*	●*	●*	—	—	Timer
a.c. current	—	●	●	—	—	●
a.c. voltage	—	●	●	●	●	—
d.c. current	●	●	●	●	●	●
d.c. voltage	●	●	●	●*	●*	●*
Process signals	●	●	●	●	●	●
Temperature	●	●	●	●	●	●
PID	—	●*	●*	—	●	●
Strain gauge/load cell	●	●	●	—	—	—
Energy	—	—	—	—	—	—
Power	—	—	—	—	—	—
Data logging	—	—	—	—	—	—
Chart recorder	—	—	—	—	—	—
Communication	●*	●*	●*	●*	●*	●*
I/O	●*	●*	●*	●	●	●
Cybersecurity function	—	—	—	—	—	—

* with option card

Panel meter selector chart

 EPC3000 series 3016 Eurotherm. by Schneider Electric 280-281	 EPC3000 series 3008 Eurotherm. by Schneider Electric 280-281	 EPC3000 series 3004 Eurotherm. by Schneider Electric 280-281	 Counts E50/E53 socomec INNOVATIVE POWER SOLUTIONS 283	 Diris A40/A41 socomec INNOVATIVE POWER SOLUTIONS 284	 Nanodac Eurotherm. by Schneider Electric 276-277	 6100A Eurotherm. by Schneider Electric 282
1/8 DIN h48 x w48mm	1/8 DIN h96 x w48mm	1/4 DIN h96 x w96mm	1/4 DIN h96 x w96mm	1/4 DIN h96 x w96mm	1/4 DIN h96 x w96mm	h144 x w144mm
100-300V a.c., 24V a.c., 24V d.c.	100-300V a.c., 24V a.c., 24V d.c.	100-300V a.c., 24V a.c., 24V d.c.	100-240V a.c.	100-240V a.c.	24V d.c. or 100-240V a.c.	100-240V a.c.
High visibility LCD with backlight	High visibility LCD with backlight	High visibility LCD with backlight	—	—	VGA display	—
—	—	—	—	—	●	●
—	—	—	—	—	●	●
—	—	—	—	—	—	—
—	—	—	—	—	●	—
—	—	—	—	—	●	—
—	—	—	—	—	●	●
—	—	—	—	—	—	—
●	●	●	●	●	●*	●
●	●	●	●	●	●*	●*
●	●	●	—	—	●*	●*
●	●	●	—	—	●*	●*
●	●	●	—	—	●	●
●	●	●	—	—	●	●
●	●	●	—	—	●	—
—	—	—	—	—	●*	—
—	—	—	●	●	—	—
—	—	—	●	●	—	—
—	—	—	—	—	●	●
—	—	—	—	—	●	●
●	●	●	●*	●*	●	●
●*	●*	●*	●*	●*	●*	●*
●	●	●	—	—	—	—

* with option card

CUB5 series miniature panel meters

Impressive functionality in a compact footprint



Digital input meter



Temperature indicator

CUB5 miniature panel meters offer extraordinary features and performance capabilities in a compact 39 x 75mm footprint.

The CUB5 series is available in a variety of models to fit your specific industrial application. From its complete, yet simple front panel programming to optional setpoint control and communications modules for added capabilities, CUB5 panel meters offer ultimate user flexibility.

Range features

- 12mm LCD display with user selectable red or green LED backlighting
- 9-28V d.c. power supply
- Decimal points and scaling
- Display colour change capability at preset
- Front panel display select button
- Front panel or Crimson software programmable
- Accepts:
 - l x communication or USB card
 - l x relay or output card
- EEPROM memory stores all parameters if power is removed
- IP65 sealed front bezel

Digital input meters

CUB5B

8 digit dual counter/rate indicator with backlight display

This versatile dual counter/rate meter can indicate two separate count functions while providing a rate display. The CUB5 has eight count modes, including bi-directional and quadrature.

Features

- Dual counter or counter/rate indicator
- Preset capability with optional output card
- Communication or programming with optional card
- Decimal points and scaling
- Count speeds up to 20kHz
- Scaling for count and rate
- Quadrature sensing gives four times the resolution

Order Code	List Price
CUB5B000	£94.00

CUB5TB

6 or 7 digit preset timer & cycle counter with backlight display

This model features two input signals and eight operating modes to solve various timing applications. Bi-directional timing with up to 18 different timing modes expand the unit's capability.

Features

- 7 digit bi-directional timing capability
- 6 digit cycle counting capability
- Selectable timer ranges and operating modes
- Elapsed timer and preset timer functionality
- Automatic time reset modes
- Preset capability with optional output card
- Communication or programming with optional card

Order Code	List Price
CUB5TB00	£94.00

Temperature meters

CUB5RTB

5 digit RTD temperature meter

This model accepts inputs from RTD sensors. Input types Pt385, Pt392, Ni672, Cu427

Features

- RTD Input types Pt385, Pt392, Ni672, Cu427
- Programmable temperature offset
- Selectable °F or °C with 1 or 0.1 degree resolution
- Minimum and maximum display capture
- Set point capability with optional output card

Order Code	List Price
CUB5RTB0	£116.00

CUB5TCB

5 digit thermocouple temperature meter

This model accepts inputs from thermocouples. Input types T, E, J, K, R, S, B, N, or mV

Features

- Programmable temperature offset
- Selectable °F or °C with 1 or 0.1 degree resolution
- Cold junction compensation (enable/disable)
- Minimum and maximum display capture
- Set point capability with optional output card

Order Code	List Price
CUB5TCB0	£112.00

CUB5 series miniature panel meters

Impressive functionality in a compact footprint



Analogue input meter

Range features

- 12mm LCD display with user selectable red or green LED backlighting
- 9-28V d.c. power supply
- Decimal points and scaling
- Display colour change capability at preset
- Front panel display select button
- Front panel or Crimson software programmable
- Accepts:
 - 1 x communication or USB card
 - 1 x relay or output card
- Set point capability with optional output card
- EEPROM memory stores all parameters if power is removed
- IP65 sealed front bezel

Analogue input meters

CUB5VB

5 digit d.c. volt meter

This d.c. volt meter has four selectable voltage ranges and a maximum input of 200V d.c.

Features

- Four selectable d.c. ranges 0 to 200mV, 2V, 20V, 200V
- Minimum and maximum display capture

Order Code	List Price
CUB5VB00	£116.00

CUB5IB

5 digit d.c. current meter

This d.c. current meter offers four selectable current ranges with a maximum input of 200mA.

Features

- Four selectable d.c. ranges 200µA, 2mA, 20mA, 200mA
- Minimum and maximum display capture

Order Code	List Price
CUB5IB00	£116.00

CUB5PB

5 digit process signal meter

This process meter is designed to accept signals from flow meters, pressure sensors and positioning sensors and display them in the desired display readout.

Features

- Three selectable d.c. ranges 0 to 10V, 0 to 20mA, 0 to 50mA
- Minimum and maximum display capture

Order Code	List Price
CUB5PB00	£116.00



Crimson 3.0 programming software

is available to download for free direct from the Red Lion website



User installable options

Communication cards are available in RS-232 and RS-485 format for sending and receiving data. These cards can be used to program the CUB5 meters using Crimson software. A USB option card is also available as a programming interface to Crimson.

Output cards can be installed to provide either a Form C single relay output rated at 1A, or a NPN dual transistor output rated at 100mA per channel.

The CUB5 meters can be powered by an 85 to 250V a.c. supply using the micro-line power supply units that attach to the back of the meter. They can also provide the d.c. power for external sensors.

Description	Order Code	List Price
Output and communication cards		
Single relay option card	CUB5RLY0	£18.00
Dual sinking open collector output card	CUB5SNK0	£18.00
RS-485 serial communication card	CUB5COM1	£25.00
RS-232 serial communication card	CUB5COM2	£25.00
USB programming card	CUB5USB0	£20.00
Power supply and programming cables		
12V d.c. micro-line power supply, 85-250V a.c. input, 400mA	MLPS1000	£29.00
24V d.c. micro-line power supply, 85-250V a.c. input, 200mA	MLPS2000	£29.00
Programming cable RS-232 (RJ11-DB9)	CBLPROG0	£32.00
Programming cable RS-485 (RJ11-DB9)	CBPRO007	£91.00
Crimson software (free download available)	SFCRD200	£20.00
USB programming cable	CBLUSB00	£22.00

PAX meters

Advanced control and indication



Counter



Rate indicator

The PAX range offers one of the widest available ranges of quality instruments in the industry standard I/8 DIN package with IP65 rated front panel.

Digital and analogue input models allow this range to accept most common field signals and scale the display as the process demands; set-up is via the front panel keys or with the Crimson software.

All instruments can carry up to 3 field installable option cards, this allows you to add or change the instrument capabilities to provide switch outputs, re-transmitted analogue or network communication.

PAX is designed to give the user maximum flexibility in scaling and interface options.

Range features

- 14.2mm LED display with adjustable intensity
- 85-250V a.c./11-36V d.c., 24V a.c. 50/60Hz power supply
- Programmable function keys and user inputs
- Up to 3 user installable option cards can be fitted to each instrument for control and communication
- EEPROM memory stores all parameters if power is removed
- Front panel or Crimson software programmable
- Standard I/8 DIN, 48 x 96mm panel mounting
- IP65 sealed front bezel

Digital input meters

Features

- 5 or 6 digit, 14.2mm red LED display
- Programmable scale factors
- Wide range of output and communication option cards
- Built-in 12V d.c. sensor power supply
- Instrument configuration via 3 programmable front panel keys or Crimson® software

PAXC – 6 digit counter

The PAXC is a totalizing counter that can be upgraded to a preset or batch counter by fitting the option modules. Communication module can also be fitted to provide a network capability.

Features

- Up to 3 count displays (A, B, C)
- Counter modes for: Up/down, Quad x1, x2, and x4
- Single or dual counter modes on inputs A & B
- Scalable counter C allows A+B or A-B

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXC0020	£148.00
11 to 36V d.c., 24V a.c.	PAXC0030	£169.00

PAXR – 5 digit rate indicator

The PAXR is a rate indicator that can be upgraded to provide set point and up to 4 alarm outputs by fitting the output option modules.

Features

- 0.01Hz to 34.0KHz input range
- Adjustable update time
- Minimum/maximum rate indication

Note: Communication option cards cannot be fitted to this instrument – use the PAXI if communication options are required.

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXR0020	£148.00
11 to 36V d.c., 24V a.c.	PAXR0030	£169.00

PAXI – 6 digit counter/rate indicator

The PAXI is a counter/rate indicator that can be used as a dual counter or slave display. By fitting various option cards this instrument can have up to 4-set points, retransmit analogue signals or connect to DeviceNet, Modbus or Profibus-DP networks.

Features

- Dual counter or counter/rate indicator
- 10 point scaling for non-linear processes
- Pre-scaler output for interface to other devices
- Ability to operate as a serial slave display

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXI0020	£185.00
11 to 36V d.c., 24V a.c.	PAXI0030	£204.00

PAX meters

Advanced control and indication



Timer

Range features

- 14.2mm LED display with adjustable intensity
- 85-250V a.c./11-36V d.c., 24V a.c. 50/60Hz power supply
- Programmable function keys and user inputs
- Up to 3 user installable option cards can be fitted to each instrument for control and communication
- EEPROM memory stores all parameters if power is removed
- Front panel or Crimson software programmable
- Standard 1/8 DIN, 48 x 96mm panel mounting
- IP65 sealed front bezel

Digital input meters

PAXTM – 6 digit preset timer

The PAXTM is a flexible timer indicator providing solutions for many industrial applications including elapse time indication. By adding option cards the instrument can be connected to many industrial networks and provide outputs for preset timing applications.

Features

- 23 selectable timer ranges
- Timer start/stop/hold operation selection
- Elapsed timer with preset capability
- Cycle counting with preset capability

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXTM000	£119.00
11 to 36V d.c., 24V a.c.	PAXTM010	£139.00


PAXCK – 6 digit real time clock/timer

The PAXCK is a timer with a real time clock capable of displaying time and date, a built-in counter provides a cycle count facility. This instrument can be used as an elapse timer, option cards can be fitted to provide outputs and network connectivity.

Features

- Real-time clock
- Elapsed timer with preset capability
- Cycle counting capability
- Daily on or daily off occurrence

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXCK000	£148.00
11 to 36V d.c., 24V a.c.	PAXCK010	£169.00

See next page for our range of PAX analogue models 

User installable option cards



DeviceNet communication card

Dual setpoint relay output card (Form-C)



Description	Order Code	List Price
Output cards		
Dual setpoint relay output card	PAXCDS10	£28.00
Quad setpoint relay output card	PAXCDS20	£35.00
Quad setpoint sinking open collector output card	PAXCDS30	£28.00
Quad setpoint sourcing open collector output card	PAXCDS40	£28.00
Communications cards		
RS485 serial communications card with terminal block	PAXCDC10	£35.00
RS485 serial communications card with dual RJ11 connector	PAXCDC1C	£35.00
RS232 serial communications card with terminal block	PAXCDC20	£35.00
RS232 serial communications card with 9 pin D connector	PAXCDC2C	£35.00
DeviceNet communications card	PAXCDC30	£84.00
Modbus communication card	PAXCDC40	£43.00
Modbus communication card with dual RJ11 connector	PAXCDC4C	£44.00
Profibus communication card	PAXCDC50	£99.00

PAX meters

Advanced control and indication



Thermocouple/
RTD meter



Voltage and
current meter

The PAX range offers one of the widest available ranges of quality instruments in the industry standard 1/8 DIN package with IP65 rated front panel.

Digital and analogue input models allow this range to accept most common field signals and scale the display as the process demands; set-up is via the front panel keys or with the Crimson software.

All instruments can carry up to 3 field installable option cards, this allows you to add or change the instrument capabilities to provide switch outputs, re-transmitted analogue or network communication.

PAX is designed to give the user maximum flexibility in scaling and interface options.

Range features

- 14.2mm LED display with adjustable intensity
- 85-250V a.c./1 I 1-36V d.c., 24V a.c. 50/60Hz power supply
- Programmable function keys and user inputs
- Up to 3 user installable option cards can be fitted to each instrument for control and communication
- EEPROM memory stores all parameters if power is removed
- Front panel or Crimson software programmable
- Standard 1/8 DIN, 48 x 96mm panel mounting
- IP65 sealed front bezel

Analogue input meters

Features

- 9 digit totaliser (integrator) with batching
- 16 point scaling for non-linear processes
- MIN/MAX reading memory, programmable capture time
- Front panel annunciators for display and set-point activation
- 16 bit resolution A to D converter
- Four set-point alarm outputs (with option card)
- Retransmitted analogue output (with option card)
- Communication and bus capabilities (with option card)
- 5 digit, 14.2mm red LED display
- Programmable scale factors
- Wide range of output and communication option cards
- Instrument configuration via 3 programmable front panel keys or Crimson® software

PAXD – Universal d.c. voltage/current meter

PAXD meters can be used to measure a wide range of d.c. voltage or currents, inputs are selectable via a rear mounted jumper system. User installable option cards provide additional alarm functions and network connectivity.

Features

- 4 voltage ranges (300V d.c. max)
- 5 current ranges (2A d.c. max)
- 3 resistance ranges (10KΩ max)
- Selectable 24V, 2V, 1.75mA excitation

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXD0000	£178.00
11 to 36V d.c., 24V a.c.	PAXD0010	£197.00

PAXH – a.c. true RMS voltage and current meter

PAXH meters can be used to measure a wide range of a.c. (true RMS) voltage or currents, inputs are selectable via a rear mounted jumper system. User installable option cards provide additional alarm functions and network connectivity.

Features

- 4 voltage ranges (300V a.c. max)
- 5 current ranges (5A max)
- Accepts a.c. or d.c. coupled inputs
- Three way isolation:
Power, input, outputs

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXH0000	£222.00



Crimson 3.0
programming software

is available to download for free direct from the Red Lion website



PAX meters

Advanced control and indication



Process input meter



Strain gauge input meter

Range features

- 14.2mm LED display with adjustable intensity
- 85-250V a.c./11-36V d.c., 24V a.c. 50/60Hz power supply
- Programmable function keys and user inputs
- Up to 3 user installable option cards can be fitted to each instrument for control and communication
- EEPROM memory stores all parameters if power is removed
- Front panel or Crimson software programmable
- Standard 1/8 DIN, 48 x 96mm panel mounting
- IP65 sealed front bezel

Analogue input meters

PAXP – Process input meter

PAXP process meters are designed to display process signals 0-20mA or 0-10V. A 24V d.c. sensor supply is available to power field devices or this unit will accept input signals from self-powered field devices. User installable option cards provide additional alarm functions and network connectivity.

Features

- Input circuit accepts 2/3 wire devices
- Display resolution 1mV or 1uA
- User input can be configured to accept sink or source sensors
- Read accuracy 0.12% at 0 to +50°C

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXP0000	£159.00
11 to 36V d.c., 24V a.c.	PAXP0010	£177.00

PAXS – Strain gauge input meter

PAXS accepts 2-wire single end, 4-wire or 6-wire bridge inputs from load cells, strain gauges or torque sensors. User installable option cards provide additional alarm functions and network connectivity.

Features

- Load cell, pressure and torque bridge inputs
- Selectable 5/10V d.c. bridge excitation
- $\pm 24\text{mV}$ or $\pm 240\text{mV}$ inputs
- 4 wire bridge (differential) or 2 wire (single ended)
- Programmable auto zero tracking

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXS0000	£252.00
11 to 36V d.c., 24V a.c.	PAXS0010	£271.00

PAXT – Thermocouple/RTD meter

PAXT temperature indicators (meters) accepts a wide range of thermocouple or RTD probes. On/off temperature control and network connectivity can be achieved by installing additional option cards.

Features

- Thermocouple types: T, E, J, K, R, S, B, N, C
- Analogue retransmit output option card
- 4 set point alarm outputs with option cards
- RTD inputs: 100 Ω Pt, 120 Ω nickel, 10 Ω copper
- Custom scaling for non-standard probes
- °F or °C unit overlay with backlight
- Time temperature integrator

Power Supply	Order Code	List Price
85 to 250V a.c.	PAXT0000	£159.00
11 to 36V d.c., 24V a.c.	PAXT0010	£177.00

See next page for user installable options

Panel Meter Selector Chart

See pages 266-267

www.lcautomation.com

PAX meters



Advanced control and indication

User installable option cards



DeviceNet communication card

Dual set-point relay output card (Form-C)



Description	Order Code	List Price
Output cards		
Dual setpoint relay output card	PAXCDS10	£28.00
Quad setpoint relay output card	PAXCDS20	£35.00
Quad setpoint sinking open collector output card	PAXCDS30	£28.00
Quad setpoint sourcing open collector output card	PAXCDS40	£28.00
Analogue output card	PAXCDL10	£53.00
Communications cards		
RS485 serial communications card with terminal block	PAXCDC10	£35.00
RS485 serial communications card with dual RJ11 connector	PAXCDC1C	£35.00
RS232 serial communications card with terminal block	PAXCDC20	£35.00
RS232 serial communications card with 9 pin D connector	PAXCDC2C	£35.00
DeviceNet communications card	PAXCDC30	£84.00
Modbus communication card	PAXCDC40	£43.00
Modbus communication card with dual RJ11 connector	PAXCDC4C	£44.00
Profibus communication card	PAXCDC50	£99.00

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PAX2 meters

The next generation in panel meters



The PAX2 has a dual line display and universal functionality and is packed full of features that set it apart from any other 1/8 DIN panel meter.

The 18mm 6-digit main LCD display offers three programmable colours: Red, orange and green. These colour changes can be tied to the set-points, providing the operator with a visual display of changing conditions in an application.

A second display line is 9mm 9-digit green LCD that can be programmed for any parameters available on that particular meter. With its dual display and versatile functionality, the PAX2 delivers an ideal solution for applications that require 2 parameters to be visualised at the same time.

Range features

- Display top line 6 digit 18mm LCD tri-colour backlight
- Universal power supply: 50-250V a.c. or 22-250V d.c.
- Display bottom line 9 digit 9mm LCD green backlight
- Multiple scaling points for non-linear processes
- Programmable action front panel buttons and user inputs
- Front panel set-point annunciators, backlit red
- Programmable units annunciator on 6 digit display
- Retrasmited analogue output
- Set-point output option, dual or quad relay
- Communication option RS232, RS485, DeviceNet, ProfiBus
- Built in USB programming port
- EEPROM memory stores parameters and display values
- IP65 sealed front panel

PAX2A

Dual line analogue input panel meter

Features

- Universal process inputs, d.c. current, d.c. voltage, process signals, resistance, thermocouples or RTDs
- Variable contrast and intensity display
- Meter update rate up to 160/second
- Built-in Modbus communications

Order Code	List Price
PAX2A000	£221.00

PAX2D

Dual line digital input panel meter

Features

- Count, dual count, rate and dual rate
- Maths function capability
- Setpoints: Dual or quad relay; quad sinking or sourcing
- Retrasmited analogue output

Order Code	List Price
PAX2D000	£221.00

PAX2C

Dual line PID controller

Features

- PID control with reduced overshoot
- Universal process, temperature, voltage, current and resistance input
- Programmable dual line display with units and bar graph
- 4 programmable universal annunciators
- Tri-colour display with 7 programmable colour zones
- Up to 16 alarms with Boolean logic functionality

Description	Order Code	List Price
Horizontal	PX2C8H00	£239.00
Vertical	PX2C8V00	£239.00

PAX2S

Dual line strain gauge panel meter

Features

- Load cell, strain gauge and pressure sensors
- Meter update rate up to 160/second
- Setpoints: Dual and quad relay; quad sinking and sourcing
- Retrasmited analogue output

Order Code	List Price
PAX2S000	£286.00

User installable option cards

Description	Order Code	List Price
Output cards		
Dual setpoint relay output card	PAXCDS10	£28.00
Quad setpoint relay output card	PAXCDS20	£35.00
Quad setpoint sinking open collector output card	PAXCDS30	£28.00
Quad setpoint sourcing open collector output card	PAXCDS40	£28.00
Analogue output card	PAXCDL10	£53.00
Communications cards		
RS485 serial communications card with terminal block	PAXCDC10	£35.00
RS485 serial communications card with dual RJ11 connector	PAXCDC1C	£35.00
RS232 serial communications card with terminal block	PAXCDC20	£35.00
RS232 serial communications card with 9 pin D connector	PAXCDC2C	£35.00
DeviceNet communications card	PAXCDC30	£84.00
Profibus-DP communications card	PAXCDC50	£99.00

nanodac™ recorder/controller

Eurotherm.

by Schneider Electric



The nanodac™ recorder/controller offers the ultimate in graphical recording combined with PID control for a box of its size. The compact ¼ DIN panel mount unit offers four high accuracy universal inputs for data recording and PID control. This secure data recording device with accurate control is enhanced by a full colour, ¼ VGA display to bring a crystal clear operator interface to even the smallest of machines.

Crystal clear, colour display

The 3.5" TFT display offers incredibly clear visualisation of process parameters with a wide selection of configurable views to best suit the application. Views include: Horizontal and vertical trends, horizontal and vertical bar graphs, numeric, alarm panel, alarm status, and control loops.

Data acquisition and recording

The nanodac™ recording functionality utilises the secure strategies and UHH file format developed by Eurotherm through years of recording expertise. As well as multiple real time views and historical review on the product, multiple data archiving strategies are provided utilising the 50Mb onboard flash memory, removable USB and data transfer via FTP to a specified server.

The four universal input channels provide high accuracy (suitable for use in nadcap applications) and 125mS parallel sampling. An additional 30 virtual channels can be utilised to provide maths, counter, slave communications and totaliser functionality within the instrument.

PID control loops

The nanodac™ recorder/controller instrument can also provide up to three independent control loops

(optional). This control functionality utilises the advanced Eurotherm PID algorithm providing high performance and reliability to your process. Functionality includes one of the best autotune facilities available along with overshoot inhibition (cutbacks); compensation for power fluctuations using power feedforward; linear, fan, oil and water cooling.

Heat treatment is one of the many processes that often need to vary the setpoint of the control process over a set period of time; this is achieved by using a set point program.

Features

- Secure data recording
- 2 PID control loops
- USB removable data storage facility
- 50Mb flash memory
- Ethernet communications
- ¼ VGA crystal clear display
- 30 virtual channels
- Steriliser application block
- Relative humidity application block
- Multiple I/O options
- Cascade with auto-tune

Technical specification

Supply voltage	100-230V a.c.
Display	3.5" TFT colour (320 x 240 pixels)
Controls	Four navigation pushbuttons
Panel size	¼ DIN (92 x 92mm)
Inputs	4/8" universal analogue
PV accuracy	> 0.1% of reading
Alarms	2 per channel
USB	1 port at rear; USB1.1
Recording	
Memory for data storage	50Mb
Recording formats	UHH (Eurotherm proprietary secure, check summed file system) or CSV
Recording destinations	Internal flash, USB memory stick, FTP over Ethernet
Recording speed	Up to 8Hz*, all channels *4Hz when 8 channels enabled
Trend update	8Hz max
Removable media	USB memory stick (up to 8GB)
Virtual channels	30 (maths/totalisers/counters/modbus input)
Recording groups	1
Control	
Control loops	2
Control types	On/off, PID, VP
Power feedforward	Yes
Communications	
Ethernet	10/100baseT
Protocols	Modbus TCP, FTP, TCP/IP, Master/Slave, Ethernet/IP Client or Server
IP rating	IP65, Nema 12

nanodac™ pre-configured controllers

Technical specification

Control function	2 PID control loops
Supply voltage	100-230V a.c.
Communication	
Protocol	Modbus TCP/IP

Output options

Relay	2A @ 230V a.c.
Logic	44mA @ 12V d.c.
Isolated d.c. current	0-20mA
Isolated d.c. current/voltage	0-10V d.c.

Configurable on output 3 only

Description	Order Code	List Price
Logic + Relay + Relay	NANODAC/VH/C/X/LRR/XX/TS/SV/XXXXX/ENG	£843.00
Logic + Relay + Isolated d.c.	NANODAC/VH/C/X/LRD/XX/TS/SV/XXXXX/ENG	£967.00
Logic + Logic + Relay	NANODAC/VH/C/X/LLR/XX/TS/SV/XXXXX/ENG	£886.00
Relay + d.c. current + d.c. current/voltage	NANODAC/VH/C/X/RDD/XX/TS/SV/XXXXX/ENG	£1,056.00
2 x d.c. current + d.c. current/voltage	NANODAC/VH/C/X/DDD/XX/TS/SV/XXXXX/ENG	£1,153.00
Logic + d.c. current + d.c. current/voltage	NANODAC/VH/C/X/LDD/XX/TS/SV/XXXXX/ENG	£1,050.00

Order code generator

Eurotherm.

by Schneider Electric

Basic Product		
NANODAC	Graphical recorder/controller	£732.00

1 Supply voltage		
VH	100-230V a.c. ±15% at 48-62Hz	Included
VL	24V a.c. +10-15% at 48-62Hz or 24V d.c. +20-15%	£28.00

2 Controller		
X	None (default)	—
C	2 control loops	£111.00
A	Advanced control loop (includes 2 control loops)	£207.00

3 Programmer		
X	None (default)	—
P	Dual programmer	£294.00

4 Output options 1 - 2 - 3		
LRR	Logic/relay/relay (default)	Included
LRD	Logic/relay/Iso DC output	£124.00
LLR	Logic/logic/relay	£43.00
RDD	Relay/Iso DC/Iso DC	£213.00
DDD	Iso DC/Iso DC/Iso DC	£310.00
LDD	Logic/Iso DC/Iso DC	£207.00
LLD	Logic/Logic/Iso DC	£124.00

5 Application blocks		
XX	None	—
ZC	Zirconia	£121.00
RH	Humidity	£115.00
ST	Steriliser	£118.00

6 Communications protocol		
TS	Modbus TCP/IP slave (default)	Included
TM	Modbus TCP/IP master	£139.00
ES	Ethernet/IP client/server	£144.00
TE	Modbus TCP master and Ethernet/IP	£283.00

7 Bezel		
SV	Silver (standard)	Included
WD	Washdown front	£11.00

8 Toolkit blocks		
XXXXX	None	—
BASIC	Basic toolkit blocks	£118.00

9 Operating language		
ENG	English (default)	Included
FRA	French	£0.00
GER	German	£0.00
ITA	Italian	£0.00
SPA	Spanish	£0.00

10 OEM security		
XXX	None	—
OEM	OEM security enabled	£42.00

11 Labels		
XXXXX	No custom labels	—

12 Special		
XXXXX	Default	—

13 Dual input channels		
XX	None	—
05	5 inputs enabled	£52.00
06	6 inputs enabled	£107.00
07	7 inputs enabled	£159.00
08	8 inputs enabled	£213.00

14 Dual thermocouple support		
XXX	None	—
TC	Dual T/C support enabled	£36.00

EXAMPLE 1 – Default Nanodac™ recorder controller

NANODAC	1 VH	2 X	3 X	4 LRR	5 XX	6 TS	7 SV	8 XXXXX	9 ENG	10 XXX	11 XXXXX	12 XXXXX	13 XX	14 XX
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List Price = £732.00

EXAMPLE 2 – Nanodac™ recorder controller

with 2 control loops, humidity application block and OEM security enabled

NANODAC	1 VH	2 C	3 X	4 LRR	5 RH	6 TS	7 SV	8 XXXXX	9 ENG	10 OEM	11 XXXXX	12 XXXXX	13 XX	14 XX
---------	------	-----	-----	-------	------	------	------	---------	-------	--------	----------	----------	-------	-------

List Price = £1,000 (£732 + [C] £111 + [RH] £115 + [OEM] £42)

3200 series controllers

Eurotherm.

by Schneider Electric



1/6 DIN 3216



1/4 DIN 3208



1/4 DIN 3204

Eurotherm 3200 series controllers provide control with clear, user friendly operator interfaces.

With an emphasis on simplicity and available in four standard formats, the 3200 range provides precise temperature control with a host of options. A simple QuickStart code is used to configure all the essential

functions required to control your process, which can also be preset by Eurotherm to your requirements.

When accessing the controller HMI, you will find that every parameter is accompanied by a scrolling text message to describe its function. The 3200 has a host of advanced features including heater failure detection,

timer, setpoint programmer and a recipe feature that is unique in this class of product.

All these features can be configured with an easy to use PC wizard configuration tool. Configurations can be saved to file and reused or modified to suit other applications in the future.

Features

● QuickStart code

A 10 digit code can be used to set up the essential 3200 series functions to control your process. You can specify this code at point of order, and your controller will arrive pre-configured

● Configuration wizard

The iTools PC software includes configuration wizards to guide you through the configuration process with interactive help and graphical demonstrations of available options

● Informative displays

All the 3200 series displays provide clear messages and data to ensure operators get the information they need about the plant conditions. They provide, clear, complete text information with a custom message facility (the 3200 uses scrolling text to maximise clarity for operators) along with help text for each controller function

● Heater failure detection

The 3200 range can accommodate a current transformer input that can be used to monitor the status of the heaters. Normally used to provide early indication of a heater fault, this input can also be used to measure the actual current flowing and indicate the value on the front HMI, provide alarm output, or make information available to a supervisory system for power usage calculations

● Easy recipe selection

Recipes can be used to change the operating parameters of the controller or even to change the full configuration - allowing one basic controller to be easily adapted to many applications. Recipes can be selected by the controller HMI using an understandable user defined name, by external hardware signals, or by digital communications

● Configuration adaptor

PC configuration of all 3200 series can be achieved by using a configuration adaptor. It gives iTools the ability to communicate and configure devices without any power being connected. This device is ideal for OEMs who need to stock a wide range of options.

As well as precision PID control from one of the World's leading suppliers, the 3200 series controllers offer a host of features that make the units easy to use and configure to save you time and money.

3216, 3208 and 3204 – Temperature/ process controllers



1/6 DIN 3216

1/6 DIN 3208



1/6 DIN 3204

The 3200 series controllers provide a new level of user convenience. The scrolling text delivers plain language messages to let operators and engineers know exactly what is happening to the process.

The emphasis is on simplicity and ease of use. A simple QuickStart code is used to configure all the functions essential for controlling your process. Three outputs can be configured to provide any combination of heating, cooling or alarm functions. Timer function offers a choice of dwell, delay switch on timer or self start. The communication option provides full system integration through a standard modbus protocol.

Features

- 3 colour LCD display with text messaging
- Choice of relay, logic or analogue outputs
- PID with autotune
- Communication option available
- Load current transformer input
- IP65 sealing with optional wash down front membrane
- Easy to use and configure
- Timer function
- Accepts a wide range of inputs
- Process alarms

Technical specification

Supply voltage 100-240V a.c.
 Display Dual 3 colour LCD display
 10 x 30 character messages
 Status beacons Units, outputs,
 alarms and active setpoint
 Control modes PID, or on/off,
 heat/cool, heat only, cool only
 Process inputs
 Thermocouple K, J, N, R, S, B,
 L, T, custom
 Resistance thermometer . . . 3 wire pt100
 Current transformer I/P50mA a.c.
 into 10
 Outputs
 1 x alarm output Change over relay
 2A @ 264V a.c.
 2 x control outputs OP1, OP2

Output types Relay, logic or 0-20mA
 Relay Normally open relay
 2A @ 264V a.c.
 Logic output 12V d.c. 44mA
 Digital input A Contact closure or logic
 Front panel sealing IP65 Nema 4X
 Dimensions
 3216 h48 x w48 x d90mm 1/6 DIN
 3208 h96 x w48 x d90mm 1/6 DIN
 3204 h96 x w96 x d90mm 1/4 DIN

Additional specification for 3208 and 3204 controllers

3 x control outputs OP1, OP2 and OP3
 Output types Relay, logic or 0-20mA
 2 digital inputs A and B Contact closure
 or logic

3216 1/6 DIN controllers

Description	Order Code	List Price
PID controller logic/relay O/P	3216-CC-VH-LR-R-XXX-S-ENG	£267.00
PID controller relay/relay O/P	3216-CC-VH-RR-R-XXX-S-ENG	£267.00
PID controller logic/0-20mA O/P (isolated)	3216-CC-VH-LC-R-XXX-S-ENG	£315.00

3216 1/6 DIN controllers with RS485 CT and digital in A

Description	Order Code	List Price
PID controller logic/relay O/P/ comms	3216-CC-VH-LR-R-4CL-S-ENG	£353.00
PID controller relay/relay O/P/comms	3216-CC-VH-RR-R-4CL-S-ENG	£353.00
PID controller logic/0-20mA O/P/comms	3216-CC-VH-LD-R-4CL-S-ENG	£391.00

3208 1/6 DIN controllers 3 outputs, CT digital in A+B

Description	Order Code	List Price
PID controller logic + 2 relay O/P	3208-CC-VH-LRRX-R-XCL-S-ENG	£381.00
PID controller logic/relay/0-20mA O/P	3208-CC-VH-LRDX-R-XCL-S-ENG	£419.00

3208 1/6 DIN controllers 3 outputs, RS485, CT and digital in A+B

Description	Order Code	List Price
PID controller logic + 2 relay O/P comms	3208-CC-VH-LRRX-R-4CL-S-ENG	£434.00
PID controller logic/relay/0-20mA O/P comms	3208-CC-VH-LRDX-R-4CL-S-ENG	£472.00

3204 1/4 DIN controllers 3 outputs, CT digital in A+B

Description	Order Code	List Price
PID controller logic + 2 relay O/P	3204-CC-VH-LRRX-R-XCL-S-ENG	£511.00
PID controller logic/relay/0-20mA O/P	3204-CC-VH-LRDX-R-XCL-S-ENG	£549.00

3204 1/4 DIN controllers 3 outputs, RS485, CT and digital in A+B

Description	Order Code	List Price
PID controller logic + 2 relay O/P comms	3204-CC-VH-LRRX-R-4CL-S-ENG	£564.00
PID controller logic/relay/0-20mA O/P comms	3204-CC-VH-LRDX-R-4CL-S-ENG	£602.00

EPC3000 series programmable controllers

Eurotherm.
by Schneider Electric



1/6 DIN 3016



1/6 DIN 3008



1/6 DIN 3004

The EPC3000 range of programmable single loop process and temperature controllers maximises efficiency and repeatability by employing the industry leading Eurotherm PID algorithm, which has been enhanced to further reduce overshoot.

Through the menu options on the controller's display you can enter a QuickStart code therefore enabling quick configuration "out of the box". For applications requiring additional processing, user function block wiring provides a full range of maths, logic, totalizer and specialised functions.

The EPC3000 Ethernet enabled controller range is Eurotherm's first to be designed and certified to meet the stringent cybersecurity requirements of Achilles® Communications Robustness Testing Level 1.

A free PC based backup and configuration tool uses a USB connection, powering the instrument from the USB interface for convenient desktop configuration.

Features

- Precision single loop controller with cybersecurity function
- Precise (0.1%) universal inputs with 50ms sample rate
- Multiple process input type available
- Exceptional thermal stability
- Fast PID response with minimal overshoot and oscillation
- Multi-programmer function with up to 10 programmes of 24 steps
- Direct Ethernet RJ45 connection certified to Achilles® CRT level 1
- High visibility customisable display
- Quick code setup with application templates
- User function block wiring including math, logic and totalizer
- Extensive range of international approvals

Technical specification

- Supply voltage 100-230V a.c., 24V a.c. or 24V d.c.
- Display . High visibility LCD with backlight 3 colour, 3 line display (EPC3004/3008 only)
- Control modes PID heat only, PID heat/cool, VPU heat only, carbon potential control, dew point control
- Process inputs Thermocouples, PT100/PT1000 RTD, 4-20mA, 0-20mA, 10V, 2V, 0.8V, 80mV, 40mV, zirconia (oxygen probe), pyrometers
- Output types
Relay Min 100mA @ 12V, Max 2A @ 264V a.c. resistive
Analogue 0-20mA, 0-10V d.c.
Logic output 12V d.c. 44mA max
- Front panel sealing . . . IP65 (standard) or IP66 NEMA 4x equivalent (washdown)
- Dimensions
3004h96 x w96 x d90mm 1/6 DIN
3008h96 x w48 x d90mm 1/6 DIN
3016h48 x w48 x d90mm 1/6 DIN

EXAMPLE – EPC3016

EPC3016	1 CP	2 VH	3 L2	4 T2	5 XX	6 X	7 XX	8 C2	9 XX	10 XX	11 X	12 ST	13 XXXX	14 XXXX	15 XX
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List Price = £336.00 ([EPC3016] £249 + [L2] £12 + [T2] £30 + [C2] £45)

EXAMPLE – EPC3004

EPC3004	1 CP	2 VH	3 L2	4 T2	5 XX	6 XX	7 XX	8 XX	9 XX	10 XX	11 XXX	12 ST	13 XXXX	14 XXXX	15 XX
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List Price = £491.00 ([EPC3004] £449 + [L2] £12 + [T2] £30)

Order code generator

Eurotherm.

by Schneider Electric

Basic Product		
EPC3016*	1/2 DIN controller	£249.00
EPC3008**	1/2 DIN controller	£399.00
EPC3004**	1/2 DIN controller	£449.00

1 Type		
CC	Controller only	—
CP	1 x 8 segment basic programmer	—
P1	1 x 24 segment advanced programmer	£45.00
P10	10 x 24 segment advanced programmer	£70.00

2 Supply voltage		
VH	100-230V a.c. ±15% (48 to 62Hz)	—
VL	24V a.c. +10%, -15% (48 to 62Hz); 24V d.c. +20, -15%; 5% ripple	£25.00

3 I/O 1		
XX	Not fitted	—
L2	Logic	£12.00
R1	Relay output (without snubber)	£15.00
R2	Relay output (supplied with external snubber)	£17.00
D1	DC output	£45.00
T1	Triac (without snubber)	£28.00
T2	Triac (supplied with external snubber)	£30.00

4 I/O 2		
XX	Not fitted	—
L2	Logic	£12.00
R1	Relay output (without snubber)	£15.00
R2	Relay output (supplied with external snubber)	£17.00
D1	DC output	£45.00
T1	Triac (without snubber)	£28.00
T2	Triac (supplied with external snubber)	£30.00

5 I/O 4 (not available for EPC3016)		
EPC3008/3004		
XX	Not fitted	—
L2	Logic	£12.00
R1	Relay output (without snubber)	£15.00
R2	Relay output (supplied with external snubber)	£17.00
D1	DC output	£45.00
T1	Triac (without snubber)	£28.00
T2	Triac (supplied with external snubber)	£30.00

6 Future		
EPC3016		
X	Not fitted	—
EPC3008/3004		
XX	Future	—

* Basic model includes on form C relay

** Basic model includes RS485 Modbus RTU slave communications, 1x form C relay, 2x contract closure digital inputs, 1x current transformer input and 24V transducer power supply

*** Digital I/O on I8/IE cannot be used for PID control output

7 Serial comms protocol (not available for EPC3008/3004)		
EPC3016		
XX	Modbus (default)	—
EI	EIBISync enabled	£34.00

7 RS485 function (not available for EPC3016)		
EPC3008/3004		
XX	Modbus (default)	—
EI	EIBISync enabled	£34.00

8 Ethernet, comms & remote SP (not available for EPC3008/3004)		
EPC3016		
XX	None (default)	—
C1	CT input, Dig In and RS232	£45.00
C2	CT input, Dig In and RS485 (3 wire)	£45.00
C3	RS422 only (5 wire)	£45.00
CR	CT input, Dig In, RSP input	£55.00
CE	Digital input, Ethernet	£45.00

8 Ethernet, 2nd input & option I/O (not available for EPC3016)		
EPC3008/3004		
XX	None (default)	—
I8	Second PV input; 8 digital input/outputs	£129.00
IE***	Second PV input: Ethernet (Modbus TCP slave) + 4 x digital I/O	£189.00
C3	RS422 only (5 wire)	£45.00
CR	CT input, Dig In, RSP input	£55.00
CE	Digital input, Ethernet	£45.00

9 Future		
XX	Future	—

10 Tool kit blocks		
XX	None (default 50 wires)	—
TK	Enabled (includes 200 wires)	£49.00

11 Future		
EPC3016		
X	Not fitted	—
EPC3008/3004		
XXX	50 wires (default)	—

12 Bezel		
ST	Standard	—
WD	Washdown	—

13 Labels		
XXXX	None (default)	—
Fnnnn	Custom label	—

14 Specials		
XXXX	None (default)	—

15 Future		
XX	Future	—

6100A – Paperless graphic recorders

Easy, secure and adaptable data recording

Eurotherm.

by Schneider Electric



The 6100A offers unrivalled input accuracy with a 125mS total sample rate for up to 18 input channels. Input channels are freely configurable to suit your process requirements. Each instrument has an intuitive, touch screen display to enable operators to clearly view process data in varying formats.

All have onboard flash data storage capability, Ethernet communication and compact flash. Data is stored in a tamper resistant binary format that can be used for secure, long term records of your process.

Your most valuable asset is the data collected for process and legislation purposes. Protection includes Audit Trail for 21CFR Part 11 and Nadcap applications, with recorded login, use of unique usernames and passwords.

The 6100 series fits a wide spectrum of applications by offering fully featured software options and flexible I/O, which can be added to at any time.

Features

- Secure data recording
- Full colour, high resolution, touch screen display
- Up to 18 universal input channels
- Batch functionality option
- Remote viewing and configuration
- Full audit trail
- USB "Plug & Play"
- Local printing

Technical specification

Supply voltage	100-240V a.c.
Battery backup	Fitted as standard
Display	Touch screen LCD backlight ¼ VGA
Inputs	6, 12 or 18 channel versions
Input types	d.c. volts, milli-volts, milli-amps, thermocouple or RTD
Ethernet communication	10/100base T
Protocol	TCP/IP, FTP, DHCP, BOOTP, SNTP, Modbus,
Serial communications	2 ports
Protocol	ASCII, Modbus RTU master slave
Protection	IP66 bezel and display
Dimensions	
Bezel size	144 x 144mm
Panel cut-out	138 x 138mm
Depth behind bezel	246.5mm

Description	Order Code	List Price
6 channel recorder	6100A-U06-NONE-PANEL-LOCK-SLV-VH-NOITPS	£2,773.00
12 channel recorder	6100A-U12-NONE-PANEL-LOCK-SLV-VH-NOITPS	£3,073.00
18 channel recorder	6100A-U18-NONE-PANEL-LOCK-SLV-VH-NOITPS	£3,385.00
Options	<p>Please contact sales office for ordering information and prices</p>	
Batch		
Auditor		
Communications		
Screen builder		

TCB 26-30 current transformers



Socomec current transformers deliver to the secondary a standard current proportional to the primary current and adapted to the rating of the associated device.

Removable terminal covers and double terminals are supplied as standard, allowing the secondary to be short-circuited without any risk.

They are mounted using two screw-on metal brackets or in certain cases by a clip-on DIN rail fastener. The connections are made by screws or by fast-on terminals.

Technical specification

Accuracy class 0.2s-0.5 or I
Dielectric quality 3kV-50Hz, 1mm

Usage frequency 50-60Hz
Permanent overload 1.2 In
Insulation class E (120°C)

TCB 26-30

Primary Current	Secondary Current	Order Code	List Price
50A	5A	192T-2305	£16.97
60A	5A	192T-2306	£16.97
75A	5A	192T-2307	£16.97
80A	5A	192T-2308	£16.97
100A	5A	192T-2310	£16.97
125A	5A	192T-2312	£16.97
150A	5A	192T-2315	£16.97

T2CB 26-30

Primary Current	Secondary Current	Order Code	List Price
200A	5A	192T-2320	£18.12
250A	5A	192T-2325	£18.12
300A	5A	192T-2330	£18.12
400A	5A	192T-2340	£17.97
500A	5A	192T-2350	£17.97
600A	5A	192T-2360	£18.12
750A	5A	192T-2375	£18.12

Countis E50 and E53 panel mounted three phase energy meters



Countis E50 is a panel mounted multi-function 3 phase energy meter measuring up to 6000A via a current transformer.

The totalising meter allows direct reading of power consumed using a pulse output. Two partial meters with reset allows the energy to be metered over a specific period.

Countis E53

The Countis E53 offers all the features of the E50 with the addition of JBus/Modbus RTU communications via RS 485.

These multi-function meters will also measure current, voltage, frequency, instantaneous power, power factor and active, reactive and apparent power.

Technical specification

Power supply 110-400V a.c. 50/60Hz
Display Backlit LCD
Output 1 pulse output 100V d.c. 0.5A
Operating temperature . . . -10 to +55°C
Current measurement 3 phase 1-5A or up to 6000A via CT
Voltage measurement 86-520V a.c.
Energy accuracy . . . Active IEC 62053-21 class 0.5s
Reactive IEC 61268 class 2
Dimensions h96 x w96 x d80mm

Description	Order Code	List Price
E50 energy meter	4850-3010	£112.65
E53 energy meter with RS485	4850-3011	£163.85

Diris A40 and A41 multi-function energy meters



Diris A40 & A41 are multifunction energy meters which monitor and manage energy for high and low voltage electrical installations.

They ensure the user has access to all the measurements required for energy efficiency projects and monitoring of electrical distribution.

A series of plug-in option modules expand the capabilities to give communication, data logging, digital and analogue functionality.

The Diris A40 will monitor single or 3 phase networks. The A41 has the capability to monitor 3 phases and neutral. Both will measure current, voltage, frequency, instantaneous power, power factor and active, reactive and apparent power. In addition to standard measurements these meters can perform harmonic analysis, display load curves and have a wide range of alarm functions.

Technical specification

- Auxiliary power supply . . . 110-400V a.c. 50/60Hz or 12-48V d.c.
- Display Multifunction backlit LCD
- Outputs See option modules
- Operating temperature . . . -10 to +55°C
- Current measurement 3 phase 1-5A or up to 10,000A via CT
- Voltage measurement 50-700V a.c.
- Energy accuracy . . . Active IEC 62053-21 Class 0.5s
Reactive IEC 62053-23 class 2
- Dimensions h96 x w96 x d60mm

Description	Auxiliary Power Supply Voltage	Order Code	List Price
Diris A40 energy meter	110-400V a.c.	4825-0201	£252.04
Diris A40 energy meter	12-48V d.c.	4825-1201	£329.02
Diris A41 energy meter with CT on neutral	110-400Va.c.	4825-0202	£473.94
Diris A41 energy meter with CT on neutral	12-48V d.c.	4825-1202	£714.08

Plug-in option modules for Diris A40 and A41 energy meters



Pulse outputs

Pulse outputs

2 configurable pulse outputs (type, weight and run) on \pm kWh, \pm kvarh and kVAh.

JBus/Modbus communication

RS 485 link with JBus/Modbus protocol (speed up to 38400 baud).

Profibus DP communication

RS 485 link with Profibus DP protocol (speed up to 12 Mbaud)

Ethernet communication

Ethernet link with Modbus/TCP or JBus/Modbus RTU over TCP

Ethernet communication with RS 485 JBus/Modbus gateway

Ethernet link with Modbus/TCP or JBus/Modbus RTU over TCP Connection of 1 to 247 RS485 JBus/Modbus slaves.

Analogue outputs

A maximum of 2 modules may be connected giving 4 analogue outputs.

2 inputs – 2 outputs

A maximum of 3 modules may be connected, giving 6 inputs and 6 outputs.

Memory

Storing up to a maximum of 62 days of P+, P-, Q+, Q- with an internal or external synchronisation signal of 5, 8, 10, 15, 20, 30 and 60 minutes.

Temperature

- Temperature indication
- Internal
- External sensor PT100 (T°C1/2/3)



JBus/Modbus communications

Description	Order Code	List Price
Pulse outputs	4825-0090	£100.82
JBus/Modbus communication	4825-0092	£175.03
Profibus DP communication	4825-0205	£280.02
Ethernet communication	4825-0203	£187.90
Ethernet communication + RS 485 gateway JBus/Modbus	4825-0204	£379.40
Analogue outputs	4825-0093	£133.01
2 inputs/2 outputs	4825-0094	£203.01
Memory	4825-0097	£260.43
Temperature inputs	4825-0206	£125.87
Functional earth	4825-0087	£117.62