

Digital Panel Meters for Industrial Monitoring and Control

In many automation and process control applications it is important to visually monitor and control variables such as temperature, pressure, vibration etc. A digital panel meter can perform these functions and more - it can provide analog and/or serial re-transmission of the measured value for feedback or data-logging purposes.

Carlo Gavazzi offers a complete range of digital panel meters from very basic indicators with no outputs (DI Series) to more complex types (UDM Series), which provide innovative features, such as the multi-color alarm

display (also called the "traffic light" function) and the 16-point linearization feature for non-linear input signals. With its modular design, the UDM Series offers great flexibility by providing any input/output combination.

The range also includes a cost-effective Universal Signal Conditioner (USC Series), which is a DIN-rail mounted, modular device. By sharing the same input/output modules as the UDM Series, it offers a tremendous number of measuring and control capabilities with a very limited number of modules being required.

The Characteristics

A wide range of available inputs for various applications: voltage, current, frequency, resistance and temperature

Modular architecture for medium and high-end meters, offering flexibility and easy configuration

Different types of outputs available to retransmit the measured variable: analog signal, alarm contacts or serial port

Easy to program via keypad or software ports

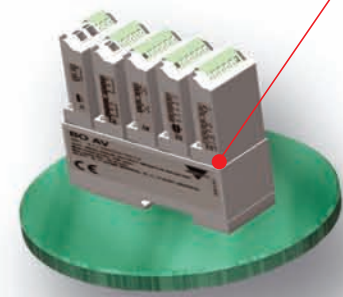
3-, 3 1/2-, 4-digit LED display or dual 6-digit LCD display with alarm and over range indication.



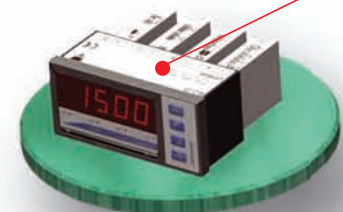
A New Concept of Modularity

- Maximum In-field Flexibility
- Quick Assembly and Configuration
- Easy Future Expansion

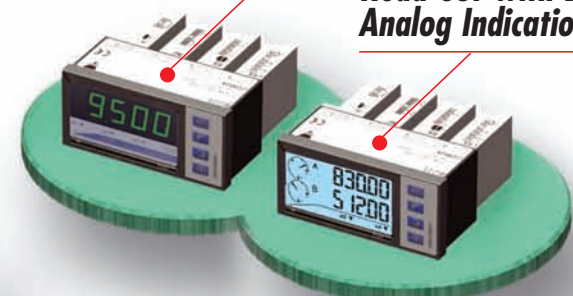
USC: 5-slot Module Holder



UDM35: 3 1/2-Digit Read-out, or 3-Digit + Dummy 0 Read-out



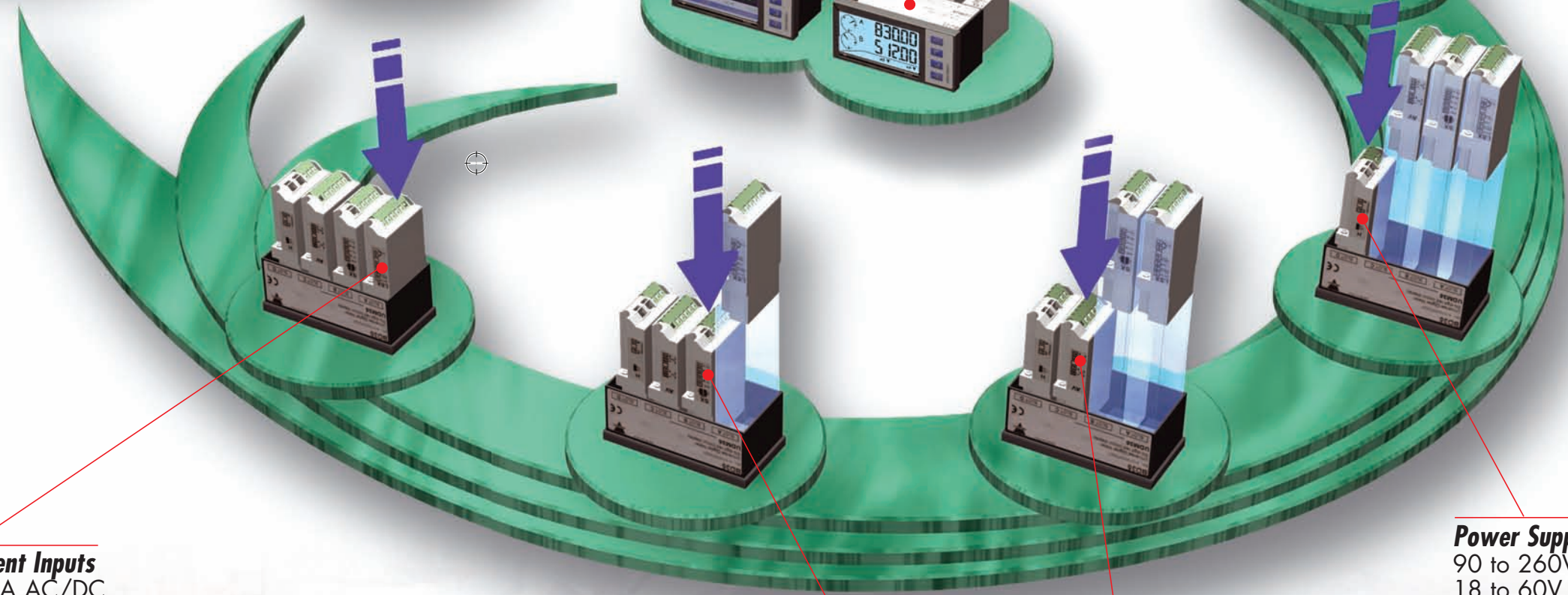
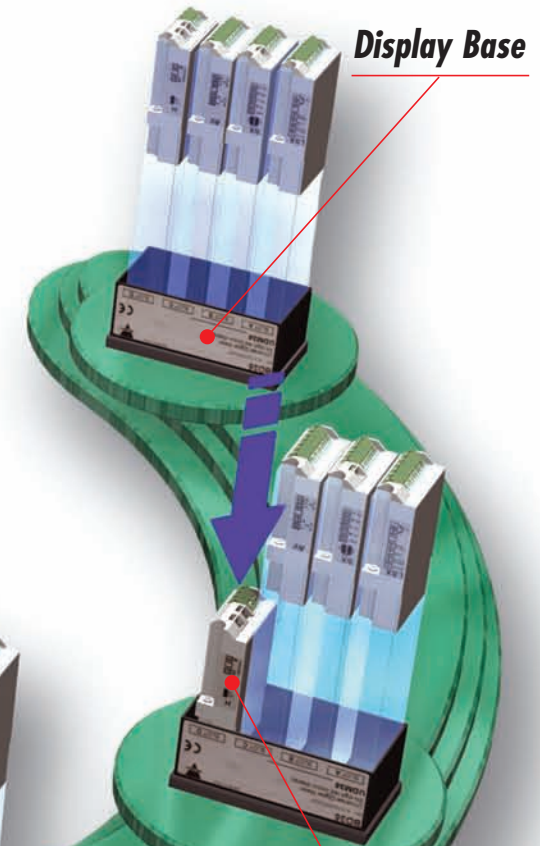
UDM40: 4-Digit Read-out, 3-Color Display



UDM60: Dual 6-Digit Read-out with Dual Analog Indication



Display Base



Measurement Inputs
 0.2-2-20mA AC/DC
 0.2-2-20mA AC/DC + excitation output
 0.2, 2, 5A AC/DC; 20, 200, 500V AC/DC
 TC: J-K-S-T-E, Pt100-250-500-1000, Ni100
 : 0.02, 0.2, 2, 20k
 Tachometer: 0.001Hz to 50kHz

Communication Port
 RS485 and RS232 ports

Outputs
 Analog outputs:
 Max 1 analog output:
 0 to 20mA or 0 to 10VDC
 Alarm outputs:
 1 relay output
 2 relay outputs
 2 relay + 2 open collector outputs
 4 relay outputs

Power Supply
 90 to 260V AC/DC
 18 to 60V AC/DC

Specifications are subject to change without notice.

Features and Benefits of the Digital Panel Meters

DI3 DIN, DI3 72, LDI3, LDM 30

- Indicators for DIN-rail and panel mounting
- Various input capabilities
- Easy product configuration via dip switches

LDI35, LDM35H

- Multi range and multi signal indicator and controller
- Powerful scaling capability
- Universal power supply (LDM35H only)

LDM40

- Multi range and multi signal indicator and controller
- Universal power supply
- 4-digit display

UDM35

- Powerful performance
- Plug and play modules
- Maximum in-field flexibility
- Possibility to expand the inputs/outputs only when really needed by the application

UDM40

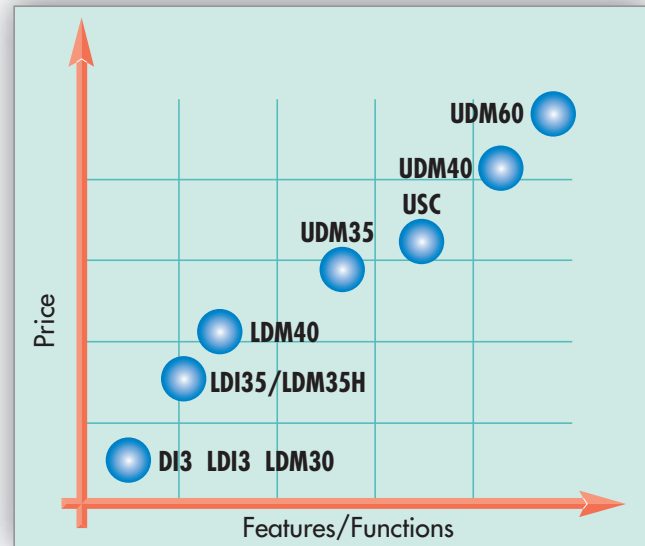
- State of the art performances
- Maximum in-field flexibility
- Input signal linearization capability
- 3-color display

UDM60

- Advanced tachometer features
- Two independent instruments in one housing
- Dual pulse metering and totalizing in one instrument
- Dual 6-digit display with analog indicators

USC

- Universal signal conditioner
- Maximum in-field flexibility
- Input signal linearization capability
- Programming and network software



UDM40 Color Display

RED

High priority, abnormal condition

AMBER

Low priority, abnormal condition

GREEN

Normal condition



DI3 DIN, DI3 72, LDI3, LDM30

These value-priced panel meters are easily configurable by dip-switches, this provides a means to set the position of the decimal point and the primary of the current transformer or to connect a potential transformer.



UDM60, Two Variables Available at a Glance

The 6-digit format provides very accurate measurements while the analog indicators show where the variable is compared to its full-scale.



Available Modules

Type	Output(s)	UDM35	UDM40	UDM60	USC	Ordering Code
UDM35 base		●				BD35
UDM40 base			●			BD40
UDM60 base				●		BD60
USC base					●	BDXX
AC/DC inputs: 200µA, 2mA, 20mA, 200mV, 2V, 20V	1	●	●		●	BQLSX
AC/DC inputs: 200µA, 2mA, 20mA, 200mV, 2V, 20V + excitation output	1	●	●		●	BQLSE
AC/DC inputs: 200mA, 2A, 5A, 20V, 200V, 500V	1	●	●		●	BQHSX
Inputs: 20Ω, 200Ω, 2kΩ, 20kΩ; TC: J-K-S-T-E, Pt100-250-500-1000, Ni100	1	●	●		●	BQTRX
Tachometer input: PNP, NPN, NAMUR, TTL, contact	2	●	●	●	●	BQTF1
Tachometer input: pick-up, voltages up to 500VAC	2	●	●	●	●	BQTF2
Analog output: 0 to 20mA, 0 to 10V DC	1	●	●	●	●	BOAV
Relay output	1	●	●	●	●	BOR1
Relay output	2	●	●	●	●	BOR2
Outputs: 2 relays + 2 open collectors	4	●	●	●	●	BOR4
Relay output	4	●	●	●	●	BOR5
RS485 communication port	1	●	●	●	●	BRSX
RS232 communication port	1	●	●	●	●	BRSY
18 to 60V AC/DC power supply		●	●	●	●	BPL
90 to 260V AC/DC power supply		●	●	●	●	BPH

Slot	UDM35/UDM40/UDM60				USC				
	A	B	C	D	A	B	C	D	E
Inputs/Outputs	1	2	3	4	1	2	3	4	5
Measurement inputs: LSX, LSE, HSX, TRX, TF1/2	●				●				
RS485 communication port: SX		●				●			
RS232 communication port: SY		●				●			
Analog output (*): AV		●	●			●	●	●	
Relay and open collector outputs: R1, R2, R4, R5			●				●		
Power supply: H, L				●					●

(* Note: A maximum of one analog output module

Modular



DI3 DIN, DI3 72
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LDM30, LD13
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LD135
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LDM35H
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USC
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Feature	DI3 DIN, DI3 72	LDM30, LD13	LD135	LDM35H	LDM40	UDM35	UDM40	UDM60	USC
DIN-rail mounting	●								●
Panel mounting	●	●	●	●	●	●	●	●	●
Modular						●	●	●	●
Indicator	●	●	●	●	●	●	●	●	●
Controller			●	●	●	●	●	●	●
3-color display							●		
Dual line display								●	
Signal conditioner									●
Linearization capability							●	●	●
Multi input (A-V)	●	●	●	●	●	●	●	●	●
Temperature measurement			●			●	●	●	●
Tachometer						●	●	●	●
Command inputs						●	●	●	●
Up to 1 alarm			●						
Up to 2 alarms				●	●				
Up to 4 alarms						●	●	●	●
Analog output					●	●	●	●	●
Serial communication					●	●	●	●	●
Universal power supply				●	●	●	●	●	●

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Control



DI3 DIN DI3 72 LDI3 LDM30

With just four basic models, this product family is the ideal solution for people with value in mind.

The product philosophy meets the user's requirements in terms of features and flexibility.

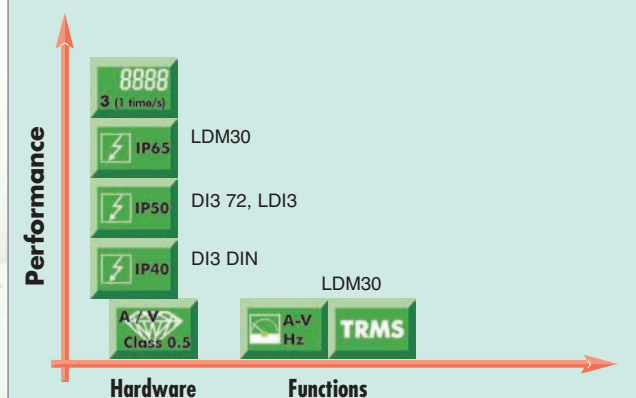


DI3 DIN DI3 72 LDI3 LDM30

Description	3-DGT μ P-based indicator
Housing (H x W x D)	89 x 53.5 x 58.8 mm (DIN) 72 x 72 x 75 mm (72) 48 x 96 x 83 mm (LDI3)
Mounting	DIN rail, panel mounting (72, LDI3, LDM30)
Display type	DI3, LDI3: 3 DGT, red LED; LDM30: 3 DGT+ dummy zero
Variables on display	YES
Measured signals	1A/60mV/100-500VDC 1A/100VAC, 5A/500VAC 1 to 1000Hz
Type signals	DC or AC
Engineering units	mA, A, V, Hz
Accuracy	$\pm(0.5\%FS, + 1DGT)$
Temperature drift	$\pm 350ppm/^{\circ}C$
Sampling rate	1 time/second
Command inputs	Not available
Outputs:	Alarm Not available Analog Not available Serial Not available
Signal/display scaling	YES (CT and VT/PT sel. by dip-switch)
Power supply	24V, 48V, 115V, 230V AC
Approvals	DI 3 72: CE, cCSAus; DI3-DIN: CE LDI3: CE, cCSAus LDM30: CE, cURus, cCSAus
Protection degree	IP40 (DIN); IP50 (72), IP50 (LDI3), IP65 (LDI3 on request; LDM30)

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For Performance Icon Definitions see page 19





LDI35

This series is available in two basic models:

- Offered as an indicator only
- With one alarm relay output

Each model has a specific version for:

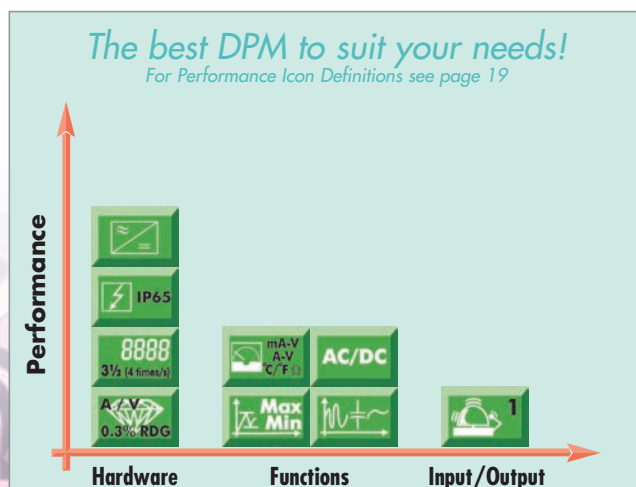
- Process applications with 2-20mA and 0.2-20V-200V input
- Higher current/voltage applications with 2-5A and 200-500VAC/DC input

The range includes an ohmmeter and a temperature controller which can accept various types of RTDs and thermocouples.



LDI35

Description	3 1/2-DGT μ P-based indicator and controller
Housing (H x W x D)	48 x 96 x 83 mm
Mounting	Panel mounting
Display type	3 1/2-DGT or 3DGT+ dummy 0, red LED
Variables on display	YES
Measured signals	(2-20mA, 20-200V); (2-5A, 200-500V); (TC: J-K-S-T-L, Pt100-1000, Ni100, 200-2000 Ω)
Type signals	DC and AC
Engineering units	Label set
Accuracy	DC: $\pm(0.3\%FS + 1DGT)$ AC: $\pm(0.5\%FS + 1DGT)$
Temperature drift	$\pm 200ppm/^{\circ}C$
Sampling rate	4 times/second
Command inputs	Not available
Outputs:	Alarm Up to 1 Analog Not available Serial Not available
Other available characteristics	Signal/display scaling. Digital filter, Peak and Valley. Burn-out control on temperature input
Power supply	24, 48, 115, 230VAC, 9 to 32VDC, 40 to 150VDC
Approvals	CE, cCSAus
Protection degree	IP65 (on request)



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Control



LDM35H

This series is available in two basic models:

- LDM35H, offered as an indicator only
- LDM35H, with one or two relay outputs

Both versions are provided with a universal power supply.

Each model has a specific version for:

- Process applications with 0.2-2-20mA and 0.2-2-20V DC/AC input
- Higher current/voltage applications with 0.2-2-5A and 20-200-500V AC/DC input

TRMS measurement significantly improves the accuracy of the measurement on both distorted current and voltage signals.

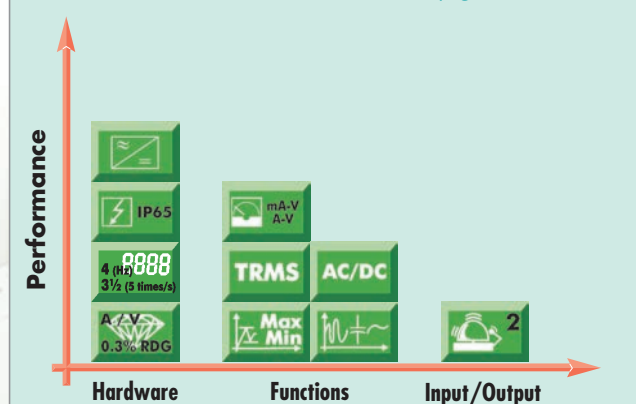


LDM35H

Description	3 1/2-DGT μ P-based indicator and controller
Housing (H x W x D)	48 x 96 x 83 mm
Mounting	Panel mounting
Display type	3 1/2-DGT or 3-DGT + dummy 0, red LED
Variables on display	YES
Measured signals	(0.2-2-20mA, 0.2-2-20V); (0.2-2-5A, 20-200-500V)
Type signals	DC and AC TRMS
Engineering units	Self adhesive label set
Accuracy	DC: $\pm(0.3\%RDG + 3DGT)$ AC: $\pm(0.5\%RDG + 3DGT)$
Temperature drift	$\pm 150ppm/^{\circ}C$
Sampling rate	5 times/second
Command inputs	Not available
Outputs:	Alarm Up to 2 Analog Not available Serial Not available
Other available characteristics	Signal/display scaling. Digital filter, Peak and Valley.
Power supply	90 to 260V AC/DC, 18 to 60V AC/DC
Approvals	CE, cCSAus, cURus
Protection degree	IP65

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LDM40

The LDM Series has now evolved to a better performing digital controller with characteristics typically found in higher class products.

The most important features which distinguish this model from the LDM35H are its extended communication capability and the 4-digit display.

The main characteristics are:

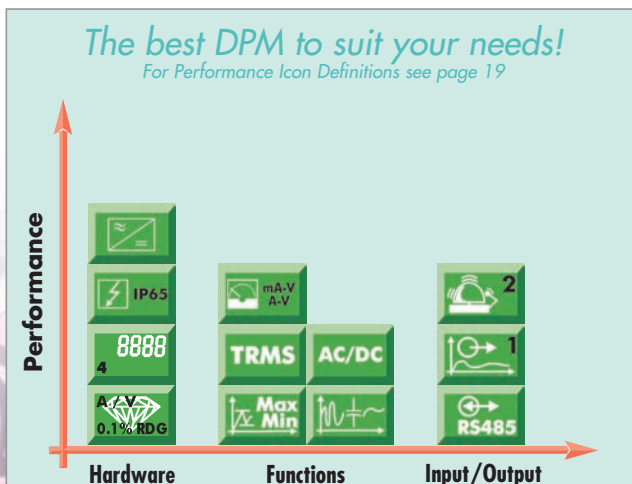
- The RS485 serial communication
- The proportional analog output

The LDM40 can be provided with either serial communication or analog signal retransmission. If needed it could be supplied with both.



LDM40

Description	4-DGT μ P-based indicator and controller
Housing (H x W x D)	48 x 96 x 83 mm
Mounting	Panel mounting
Display type	4-DGT, red LED
Variables on display	YES
Measured signals	(0.2-2-20mA, 0.2-2-20V); (0.2-2-5A, 20-200-500V)
Type signals	DC and AC TRMS
Engineering units	Self adhesive label set
Accuracy	DC: $\pm(0.1\%RDG + 2DGT)$ AC: $\pm(0.3\%RDG + 2DGT)$
Temperature drift	$\pm 150ppm/^{\circ}C$
Sampling rate	5 times/second
Command inputs	Not available
Outputs:	Alarm Up to 2 Analog 1 (20mA, 10VDC) Serial RS485
Other available characteristics	Signal/display scaling. Digital filter, Peak and Valley.
Power supply	90 to 260V AC/DC, 18 to 60V AC/DC
Approval	CE, cURus and cCSAus pending
Protection degree	IP65



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Control

Modular Panel Meter



UDM35

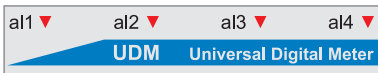
The UDM 35 is a universal Digital Panel Meter that has been developed to meet the most advanced application requirements. The UDM35 offers:

- Quick assembly and maintenance using plug and play modules
- Easy and quick parameter programming and parameter cloning on other UDMs by means of UdmSoft or PC HyperTerminal
- Powerful variable control by means of up to four alarms
- Analog output and RS485/RS232 communication ports

The different type of alarm controls:

- Up-down functions with automatic reset
- Up-down functions with manual reset
- Down with disable function at power-on

These alarms can be combined to offer up to four abnormal steps known as pre-alarms and alarms.



MODULAR

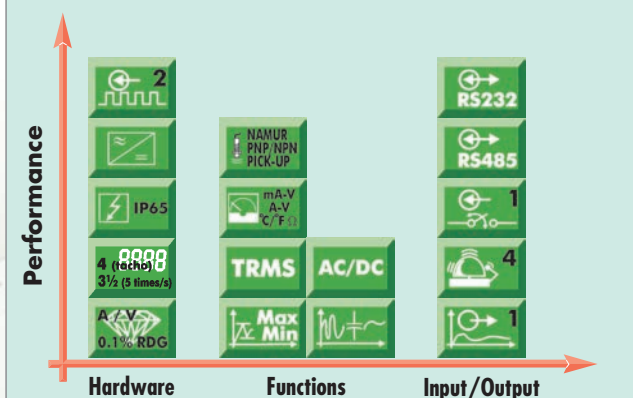


UDM35

Description	µP-based controller with modular housing
Housing (H x W x D)	48 x 96 x 105 mm
Mounting	Panel mounting
Display type	3 1/2-DGT or 3-DGT + dummy 0, red LED (4-DGT in case of tachometer function)
Variables on display	YES
Measured signals	(0.2-2-20mA, 0.2-2-20V); (0.2-2-5A, 20-200-500V); (TC: J-K-S-T-E, RTD, Ω); speed, frequency, rate, period (0.001Hz to 50kHz)
Type signals	DC and AC TRMS
Engineering units	Self adhesive label set
Accuracy	Pulse: ±(0.001%RDG + 3DGT) DC: ±(0.1%RDG + 3DGT) AC: ±(0.3%RDG + 3DGT)
Temperature drift	±150ppm/°C
Sampling rate	5 times/second
Command inputs	1 (display hold, key pad lock or latch alarm reset)
Outputs:	Alarm Up to 4 Analog 1 (20mA, 10VDC) Serial RS485, RS232
Other available characteristics	Signal/display scaling. Analog output scaling. Digital filter, peak and Valley. Burn-out control on temperature inputs only.
Power supply	90 to 260 AC/DC, 18 to 60V AC/DC
Approvals	CE, cCSAus, cURus
Protection degree	IP65

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Modular Panel Meter



UDM40

The UDM40 offers the same basic characteristics as the UDM35, but with these additional benefits:

- Display color adaptable to other existing instruments by means of a 3-color choice
- Management of non linear signals coming from special process transmitters using a 16-point linearization capability
- Provides reliable process information, working out a complex or disturbed signal by a programmable input integration time and/or a smart digital filter

Alarm status at a glance using the easy “traffic light” principle. The instrument may show the alarm status based on a sequence of colors that can be programmed by the user.

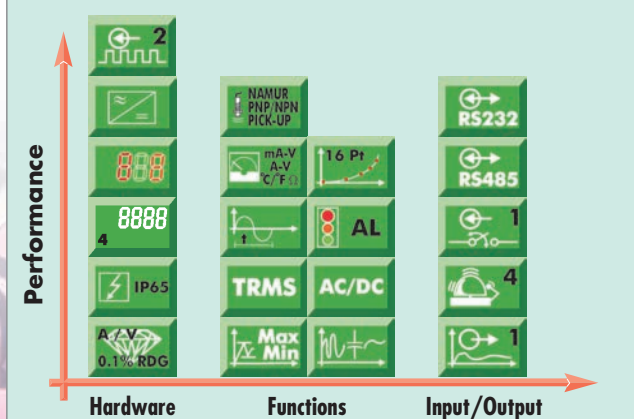


UDM40

Description	4-DGT μ P-based controller with modular housing
Housing (H x W x D)	48 x 96 x 105 mm
Mounting	Panel mounting
Display type	4-DGT, color LED
Variables on display	YES
Measured signals	(0.2-2-20mA, 0.2-2-20V); (0.2-2-5A, 20-200-500V); (TC: J-K-S-T-E, RTD, Ω); speed, frequency, rate, period (0.001Hz to 50kHz)
Type signals	DC and AC TRMS
Engineering units	Self adhesive label set
Accuracy	Pulse: $\pm(0.001\%RDG + 3DGT)$ DC: $\pm(0.1\%RDG + 3DGT)$ AC: $\pm(0.3\%RDG + 3DGT)$
Temperature drift	$\pm 150ppm/^{\circ}C$
Sampling rate	5 times/second
Command inputs	1 (display hold, key pad lock or latch alarm reset)
Outputs:	Alarm Up to 4 Analog 1 (20mA, 10VDC) Serial RS485, RS232
Other available characteristics	Signal/display scaling. Analogue output scaling. Digital filter. Integration time. Peak and valley. Burn-out control on temp. inputs only. Linearization. Traffic light function.
Power supply	90 to 260 AC/DC, 18 to 60V AC/DC
Approvals	CE, cCSAus, cURus
Protection degree	IP65

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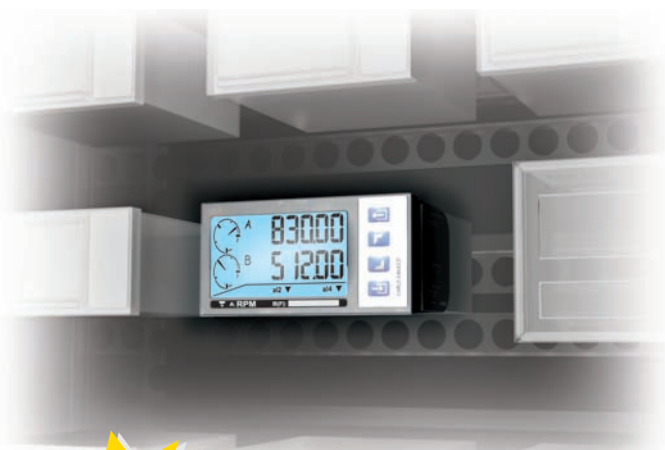
Control

Modular Tachometer/Counter



UDM60

The successful and unique UDM Series now has a new complementary model, the UDM 60 - a universal tachometer and counter with dual indication. It is an advanced panel meter capable of simultaneously displaying two independent variables, making it two instruments in one. This solution allows the user to maximize panel space, use one meter instead of two and save money. The UDM60 features an accurate digital readout, but also provides the benefits of an analog display, as the user can see the behaviour of the instantaneous variable versus the meter's full scale. This allows the user to see the parameters being measured 'at a quick glance'. The heart of the instrument is the BQTFx module, which can also be combined with the UDM35 for a 4 digit (red) LED indication or the UDM40 for a 4 digit (red-amber-green) indication. The same inputs (A and B) can also be connected between one another to provide specific control and display functions like: 1/A, A/B, A-B, (A-B)/B and B/(A+B), to manage i.e. speed or frequency difference or rate.



MODULAR

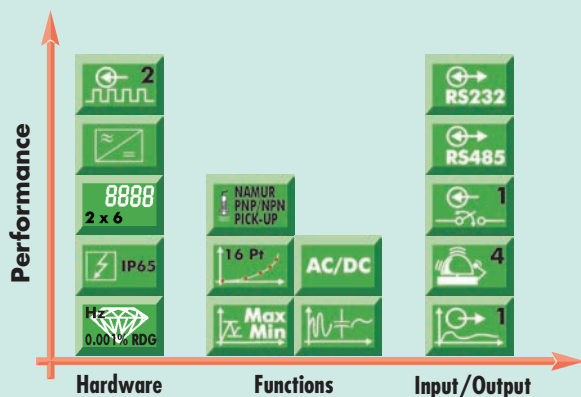


UDM60

Description	6-DGT μ P-based controller with modular housing						
Housing (H x W x D)	48 x 96 x 105 mm						
Mounting	Panel mounting						
Display type	Dual 6-DGT, backlit LCD display with analog indication also						
Variables on display	YES						
Measured signals	Speed, frequency, rate, period, totalizer (0.001Hz to 50kHz)						
Type signals	DC or AC						
Engineering units	Self adhesive label set						
Accuracy	$\pm(0.001\%RDG + 3DGT)$						
Temperature drift	$\pm 100ppm/^{\circ}C$						
Sampling rate	5 times/second						
Command inputs	1 (display hold, key pad lock or latch alarm reset)						
Outputs:	<table border="0"> <tr> <td>Alarm</td> <td>Up to 4</td> </tr> <tr> <td>Analog</td> <td>1 (20mA, 10VDC)</td> </tr> <tr> <td>Serial</td> <td>RS485, RS232</td> </tr> </table>	Alarm	Up to 4	Analog	1 (20mA, 10VDC)	Serial	RS485, RS232
Alarm	Up to 4						
Analog	1 (20mA, 10VDC)						
Serial	RS485, RS232						
Other available characteristics	Signal/display scaling. Analog output scaling. Digital filter. Peak and valley. Linearization. Combination of the inputs according to predefined functions. Pulse metering and totalizing.						
Power supply	90 to 260 AC/DC, 18 to 60V AC/DC						
Approvals	CE, cURus, cCSAus pending						
Protection degree	IP65						

The best meter to suit your needs!

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Modular Signal Conditioner

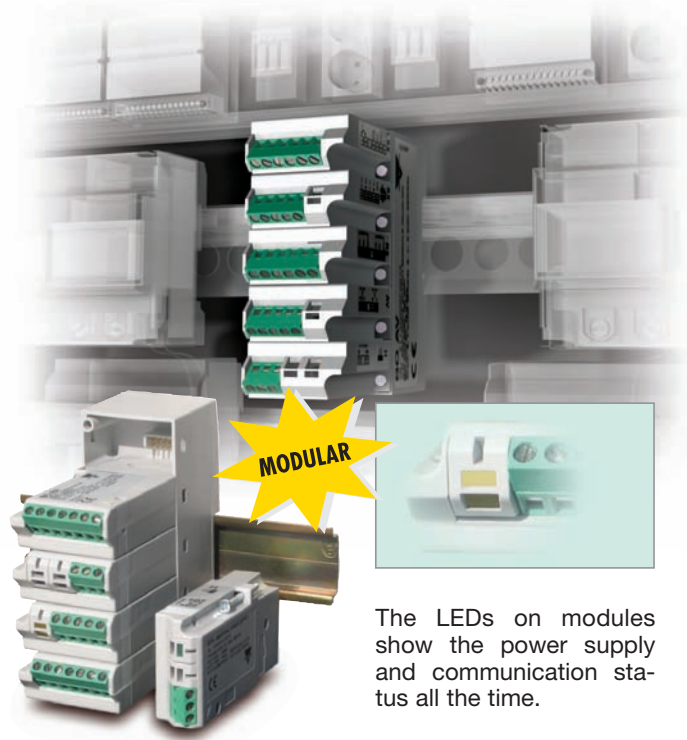
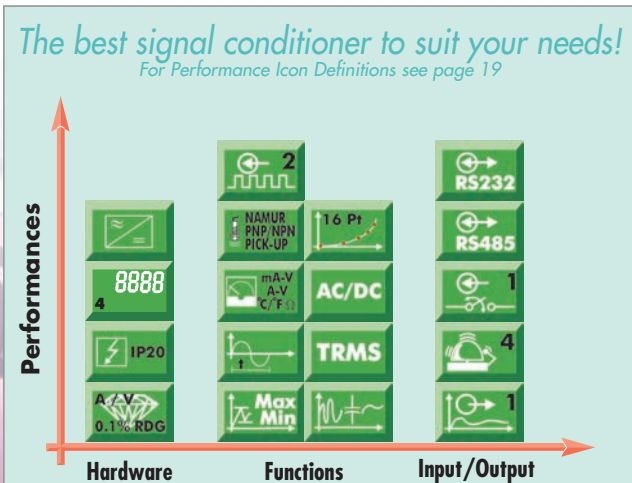


USC

The key benefit of the USC Universal Signal Conditioner is its architecture. It is created with a module holder on which it is possible to plug in modules with different functions: power supply, measurement, alarm, control and signal retransmission. The different combination of the modules allows for a simple signal conditioner or a very sophisticated controller with communication port.

The USC offers:

- Easy and quick parameter programming and parameter cloning on other USCs by means of UscSoft or PC HyperTerminal
- Powerful variable control by means of up to four alarms
- Remote control via an analog output
- RS485 and RS232 communication ports
- Management of non linear signals coming from special process transmitters using a 16-point linearization capability
- Reliable process information, working out a complex or disturbed signal by a programmable input integration time and/or smart digital filter
- Interchangeable I/O modules with the UDM Series



The LEDs on modules show the power supply and communication status all the time.

USC

Description	µP-based signal conditioner with modular housing
Housing (H x W x D)	44 x 113 x 107 mm
Mounting	DIN-rail mounting
Display type	Not Available
Variables on display	Not Available
Measured signals	(0.2-2-20mA, 0.2-2-20V); (0.2-2-5A, 20-200-500V); (TC: J-K-S-T-E, RTD, Q); Speed, frequency, rate, period, totalizer
Type signals	DC and AC TRMS
Engineering units	Not available
Accuracy	DC: $\pm(0.1\%RDG + 3DGT)$ AC: $\pm(0.3\%RDG + 3DGT)$ RPM/Hz: $\pm(0.001\%RDG + 3DGT)$
Temperature drift	$\pm 150ppm/^{\circ}C$
Sampling rate	5 times/second
Command inputs	1 (latch alarm reset)
Outputs:	Alarm Up to 4 Analog 1 (20mA, 10VDC) Serial RS485, RS232
Other available characteristics	Signal/display scaling. Analog output scaling. Digital filter. Integration time. Peak and valley. Burn-out control on temp. inputs only. Linearization up to 16 points.
Power supply	90 to 260 AC/DC, 18 to 60V AC/DC
Approvals	CE, cURus, cCSAus
Protection degree	IP20

Current Transformers

Types

Class
 Bus-bar size/Cable diam.
 Dimensions (H x W x D)
 Standards
 Accuracy class
 depending on
 the burden output
 Primary current at
 rated output
 current of 1A/5A

TADK	
Class	0.5
Bus-bar size/Cable diam.	25X5 mm
Dimensions (H x W x D)	115.5x75x44 mm
Standards	IEC60185 / EN60185
Accuracy class	Burden (VA)
depending on the burden output	Class 0.5
Primary current at rated output current of 1A/5A	1A 10 5A 10 60A 10 10A 10 15A 10 25A 10 40A 10

TADK2	
Class	0.5
Bus-bar size/Cable diam.	25X5 mm
Dimensions (H x W x D)	115.5x75x44 mm
Standards	IEC60185 / EN60185
Accuracy class	Burden (VA)
depending on the burden output	Class 0.5
Primary current at rated output current of 1A/5A	1A 10 5A 10 60A 10 10A 10 15A 10 25A 10 40A 10 50A 10 60A 10 80A 10 100A 10 150A 10 200A 10 250A 10

CTD-1X		
Class	0.5	
Bus-bar size/Cable diam.	max Ø 23 mm	
Dimensions (H x W x D)	65x44x44 mm	
Standards	EN 60044-1	
Accuracy class	Burden (VA)	
depending on the burden output	Class 0.5	1 3
Primary current at rated output current of 1A/5A	40A 1	50A 1.25 60A 1.5 70A 1.5 1.75 75A 1 1.25 1.75 80A 1.25 1.5 2 100A 1.5 1.75 2.25 120A 1.75 2 2.5 125A 2 2.25 2.75 150A 2.25 2.5 3 160A 2.5 2.75 3.25 200A 3 3.25 3.75 250A 4.5 4.75 5.25 300A 5 5.5 6

CTD-2X		
Class	0.5	
Bus-bar size/Cable diam.	max 32x5mm; Ø 24mm	
Dimensions (H x W x D)	86x56x63 mm	
Standards	EN 60044-1	
Accuracy class	Burden (VA)	
depending on the burden output	Class 0.5	1 3
Primary current at rated output current of 1A/5A	40A 1.25	50A 1.5 60A 2 70A 2.5 75A 1.75 2.5 80A 2 2.75 100A 2.5 3 120A 2.75 3.75 125A 2 2.75 3.75 150A 3 4 5 160A 3 4 5 200A 4 5 6.5 250A 5.5 7 8 300A 7 8.5 9.5 400A 12 13.5 14.5 500A 14 15.5 16.5 600A 17.5 19 20

CTD-3X		
Class	0.5	
Bus-bar size/Cable diam.	max 51x15mm; Ø 41mm	
Dimensions (H x W x D)	109x77x63 mm	
Standards	EN 60044-1	
Accuracy class	Burden (VA)	
depending on the burden output	Class 0.5	1 3
Primary current at rated output current of 1A/5A	50A 1.75	60A 2 70A 2.5 75A 3 80A 3 100A 2 3.5 120A 2.25 4 125A 2.5 4.5 150A 2.25 3 6 160A 2.5 3.5 6.5 200A 3 4.5 8.5 250A 3.5 6.5 10.5 300A 7 10 13 400A 9 14 17 500A 14 18 21 600A 17 21 24 700A 22 26 29 750A 24 28 31 800A 25 29 32 1000A 35 39 42 1200A 40 44 47

Types

Class
 Bus-bar size/Cable diam.
 Dimensions (H x W x D)
 Standards
 Accuracy class
 depending on
 the burden output
 Primary current at
 rated output
 current of 1A/5A

CTD-4X			
Class	0.5		
Bus-bar size/Cable diam.	max 64x20mm; Ø 51mm		
Dimensions (H x W x D)	113x90x63 mm		
Standards	EN 60044-1		
Accuracy class	Burden (VA)		
depending on the burden output	Class 0.5	1 5P5	
Primary current at rated output current of 1A/5A	150A 2.5	5 cl.3	
	200A 3.25	6 cl.3	
	250A 2.5 4.5	2	
	300A 3 4	3	
	400A 6 9	3	
	500A 10 12.5	4	
	600A 11 13.5	4	
	700A 12.5 15	5	
	750A 13 15.5	5	
	800A 14 16.5	5	
	1000A 17.5 20	6	
	1200A 20 22.5	6	
	1250A 20 22.5	6	
	1500A 27.5 30	8	
	1600A 27.5 30	8	

TAD 8			
Class	0.5/1/5P10		
Bus-bar size/Cable diam.	82x32mm or 65x34mm		
Dimensions (H x W x D)	140x120x55 mm		
Standards	IEC60185 / EN60185		
Accuracy class	Burden (VA)		
depending on the burden output	Class 0.5	1 5P10	
Primary current at rated output current of 1A/5A	400A 4 8	5	
	500A 6 12	5	
	600A 10 20	5	
	800A 15 30	5	
	1000A 20 40	5	
	1200A 30 50	5	
	1500A 40 60	5	
	2000A 50 80	5	
	2500A 60 100	5	

TAD 12			
Class	0.5/1/5P10		
Bus-bar size/Cable diam.	127x51mm or 102x53mm		
Dimensions (H x W x D)	183x170x65 mm		
Standards	IEC60185 / EN60185		
Accuracy class	Burden (VA)		
depending on the burden output	Class 0.5	1 5P10	
Primary current at rated output current of 1A/5A	800A 15 30	10	
	1000A 20 40	10	
	1200A 30 60	10	
	1500A 40 80	10	
	2000A 50 100	10	
	2500A 60 120	10	
	3000A 80 160	10	
	4000A 100 200	10	

TACO 110			
Class	0.5/1/5P10		
Bus-bar size/Cable diam.	max Ø 110 mm		
Dimensions (H x W x D)	183x170x65 mm		
Standards	IEC60185 / EN60185		
Accuracy class	Burden (VA)		
depending on the burden output	Class 0.5	1 5P10	
Primary current at rated output current of 1A/5A	800A 15 30	10	
	1000A 20 40	10	
	1500A 40 80	10	
	2000A 50 100	10	
	2500A 60 120	10	
	3000A 80 160	10	
	4000A 100 200	10	

TACO 200			
Class	0.5/1/5P10		
Bus-bar size/Cable diam.	max Ø 200 mm		
Dimensions (H x W x D)	295x280x45 mm		
Standards	IEC60185 / EN60185		
Accuracy class	Burden (VA)		
depending on the burden output	Class 0.5	1 5P10	
Primary current at rated output current of 1A/5A	1000A 15 30	10	
	1500A 15 30	10	
	2000A 15 30	10	
	2500A 40 80	10	
	3000A 40 80	10	
	4000A 50 100	10	
	5000A 50 100	10	
	6000A 50 100	10	

Cable and/or bus-bar type AC current transformers; operating frequency: 45 to 65 Hz; max system voltage: 0.72 kV; rated insulation level: 3kV/1min @ 50Hz; security factor: 5; rated secondary current: 5A standard (1A on request); DIN-rail, bus-bar or back-panel mounting. All the products are CE marked.

