CARLO GAVAZZI
Automation Components

CARLO GAVAZZI

Digital Panel Meters

- DC or AC Current and Voltage
- Temperature and Resistance
- Frequency and Speed

Controls

What are and Why use the Digital Panel Meters

In the manufacturing industry and in the process control applications, it is of vital importance the monitoring and control by means of alarms of several physical variables. In addition, an analogue or serial retransmission of the measured value can be required in order to provide a feedback to the system which controls the process, or to log the history of the monitored plant. Whatever are your needs and requirements in the process you have to control, Carlo Gavazzi has the right solution.

Should you need a simple indicator, a controller for every kind of variable, or a more complex instrument - able for example to manage four alarms, to be connected in an RS485 network, to linearise the non-linear input signals or to show different conditions with different display colours - we have the panel meter that better suits your demands. The range is completed with a universal signal conditioner, whose flexible and advantageous modular architecture is common to the other medium and high-end panel meters.

The Characteristics

Wide range of available inputs for all the applications: voltage, current, frequency, resistance, temperature.

Modular architecture available in the medium and high-end meters, making them flexible and easy to configure.

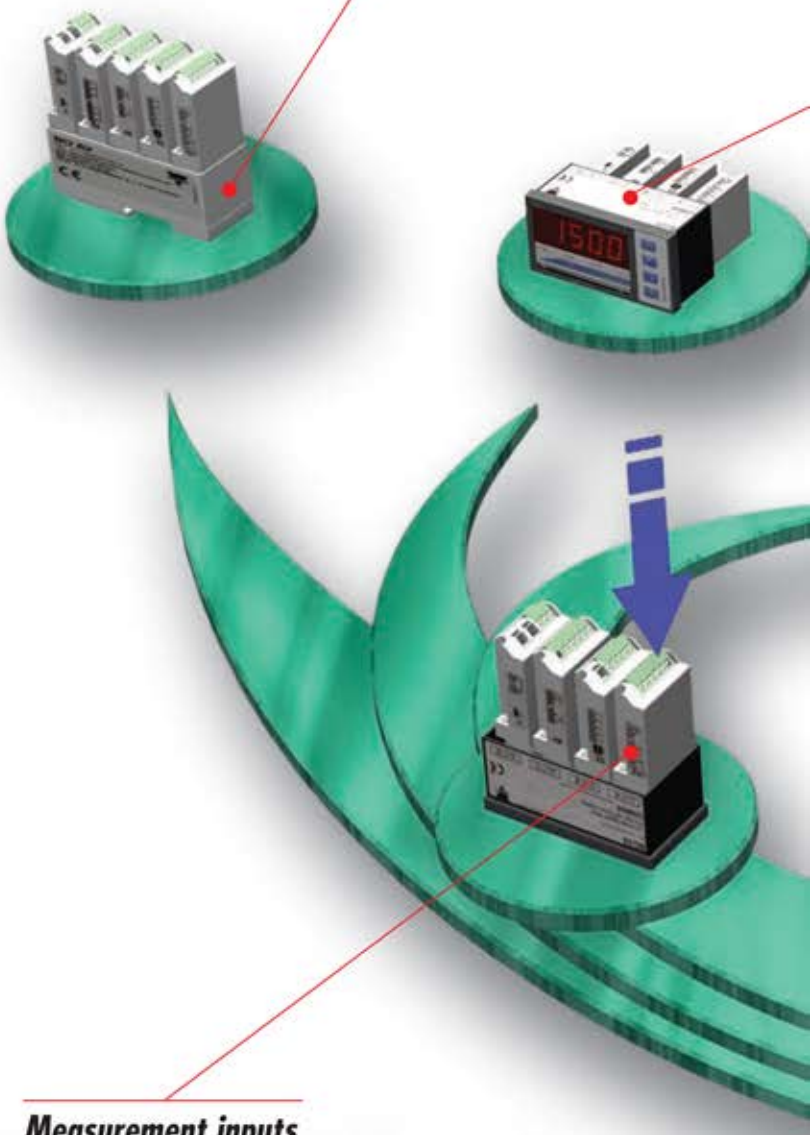
Different type of outputs available to retransmit the measured variable: analogue signal, alarm contacts or serial port

Easy programmability by means of a handy keypad. The more complex instruments are configurable by means of dedicated software tools.

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

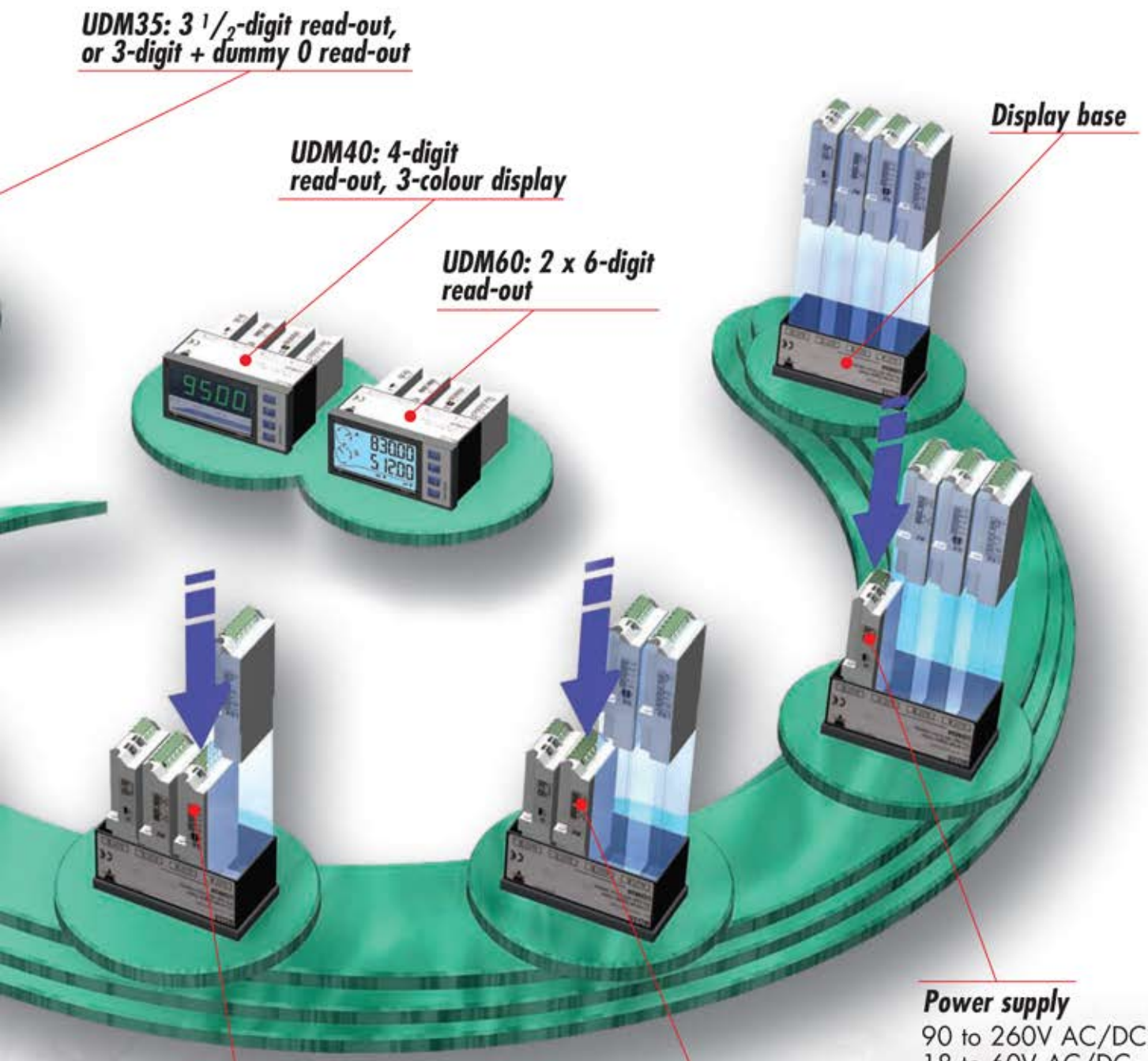
A new Concept of Modularity

- **Maximum in-field flexibility**
- **Quick assembly and configuration**
- **Easy future expansion**



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
Ω: 0.02, 0.2, 2, 20kΩ
Tachometer: 0.001Hz to 50kHz



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

Communication port
RS485 and RS232 ports

Outputs
Analogue outputs:
Max 1 analogue output
0 to 20mA and 0 to 10VDC

Alarm outputs:
1 relay output
2 relay outputs
2 relay + 2 open collector outputs
4 relay outputs.

Features and Benefits of the Digital Panel Meters

LDI35, LDM35H
- Multi range and multi signal indicator and controller
- Powerful scaling capability
- Universal power supply (LDM35H only)

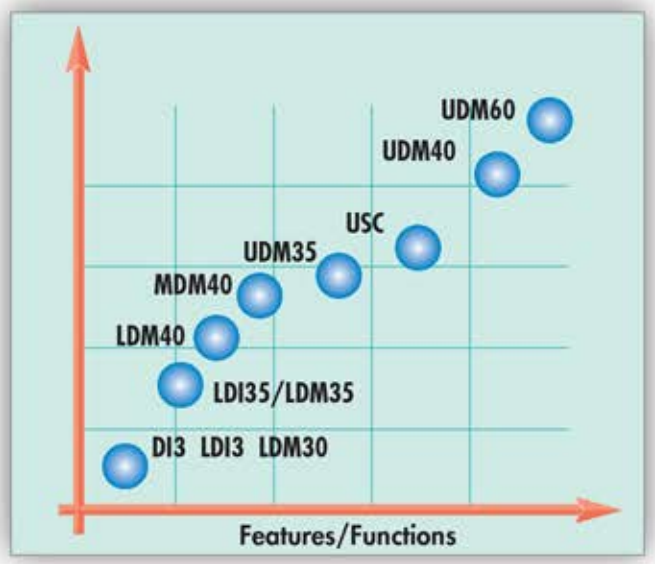
LDM40
- Multi range and multi signal indicator and controller
- Universal power supply
- 4-digit display

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-colour display

UDM60
- Advanced tachometer features
- Two independent instruments in one housing
- Dual pulse metering and totalizing in one instrument
- Dual line 6-digit display with analogue indicators

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



UDM40 Colour Display

RED - High priority, abnormal condition

AMBER - Low priority, abnormal condition

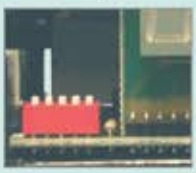
GREEN - Normal condition

UDM60, two variables available at a glance

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

DI3 DIN, DI3 72, LDI3, LDM30

The instruments are easily configurable by dip-switches, this allowing to set the position of the decimal point and the primary of the current transformer or to connect the potential transformer.



The available Modules

Type	Ch	UDM35	UDM40	UDM60	USC	OrderingCode
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
Analogue 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

	UDM35/UDM40/UDM60				USC				
Slot	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		●				●			
Analogue output (*): AV		●	●			●	●	●	
Relay and open collector outputs: R1, R2, R4, R5			●				●		
Power supply: H, L				●					●

(*) Note: max one analogue output module







DI3 DIN, DI3 72 Page 10	LDM30, LDI3 Page 10	LDI35 Page 11	LDM35H Page 12	LDM40 Page 13
DIN rail mounting				
Panel mounting				
Modular				
Indicator				
Controller				
3-colour 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				
Analogue output				
Serial communication				
Universal power supply				

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DI3 DIN DI3 72 LDI3 LDM30

With just four basic models this product family is the ideal solution for the panel builders.

The product philosophy meets the panel builder and distributor requests in terms of features and flexibility granting therefore a significant stock reduction.

LDM30

DI3 DIN DI3 72 LDI3 LDM30

Description	3-DGT µP-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	±(0.5%FS, + 1DGT)
Temperature drift	±350ppm/°C
Sampling rate	1 time/s
Command inputs	NO
Outputs: Alarm	NO
Analogue	NO
Serial	NO
Signal/display scaling	YES (CT and VT/PT sel. by dip-switch)
Power supply	24V, 48V, 115V, 230V AC
Approvals	CE, DI3 72: c CSA us; LDI3, LDM30: c CSA us, UR
Protection degree	IP40 (DIN); IP50 (72), IP50 (LDI3), IP65 (LDI3 on request; LDM30)

LDI35

The family is available in two basic versions:
- LDI35, simply as indicator;
- LDI35, up to 1 alarm relay output.

On each basic model it is possible to have a specific version for:
- process applications with 2-20mA and 0.2-20V-200V input;
- panel builders with 2-5A and 200-500VAC/DC input.

The range is completed by a multi probe temperature controller and ohmmeter.

LDI35

Description	3 1/2-DGT µP-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, 200-2000Ω)
Type signals	DC and AC
Engineering units	Label set
Accuracy	DC: ±(0.3%FS + 1DGT) AC: ±(0.5%FS + 1DGT)
Temperature drift	±200ppm/°C
Sampling rate	4 times/s
Command inputs	NO
Outputs: Alarm	Up to 1
Analogue	NO
Serial	NO
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, c CSA us, UR
Protection degree	IP65 (on request)

LDM35H

The family is available in two basic versions:
- LDM35H, simply indicator;
- LDM35H, indicator with up to 2 alarm relay outputs.
  Both of them provided with universal power supply.

On each basic model it is possible to have a specific version for:
- process applications with 0.2-2-20mA and 0.2-2-20V DC/AC input;
- panel builders with 0.2-2-5A and 20-200-500V AC/DC input.

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

LDM35H

Description	3 1/2-DGT µP-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 sticking label set
Accuracy	DC: ±(0.3%RDG + 3DGT) AC: ±(0.5%RDG + 3DGT)
Temperature drift	±150ppm/°C
Sampling rate	5 times/s
Command inputs	NO
Outputs: Alarm	Up to 2
Analogue	NO
Serial	NO
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, c CSA us and UR pending
Protection degree	IP65

LDM40

The family of the LDM series is now extended to a new performing digital controller which characteristics belong, in fact, to a higher class product.

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

LDM40	
Description	4-DGT µP-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 sticking label set
Accuracy	DC: ±(0.1%RDG + 2DGT) AC: ±(0.3%RDG + 2DGT)
Temperature drift	±150ppm/°C
Sampling rate	5 times/s
Command inputs	NO
Outputs: Alarm	Up to 2
Analogue	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
Approvals	CE, c CSA us and UR pending
Protection degree	IP65

The main characteristics can be summarized in two main points:

- the RS485 serial communication;
- the analogue output proportional to the variable being measured by the instrument.

LDM40 can be provided either with serial communication or analogue signal retransmission but also, in case of demanding applications, with both of these.

MDM40

MDM40 tachometer is an extract of flexibility and performances in only one product.

This instrument is suitable to be used in all applications thanks to:

- the capability to measure a very slow speed/frequency (0.001 Hz);
- the management of pulse signals from proximity switches, photo switches, NAMUR proximities, encoders and magnetic pick-up's;
- the rate-tacho-frequency-period meter functions.

The two independent inputs, with proper parameter programming, are able to measure rate, speed, frequency and period variables using mathematical formulas like: A, B, 1/A, A/B, A-B, (A-B)/B, B/(A+B) and revers speed control.

MDM40

Description	4-DGT multi-range controller for pulse signal
Housing (H x W x D)	48 x 96 x 124 mm
Mounting	Panel mounting
Display type	4 DGT, red LED
Variables on display	YES
Measured signals	Speed, frequency, rate, period
Type signals	DC or AC
Engineering units	Label set
Accuracy	±(0.001% RDG + 3DGT)
Temperature drift	±100ppm/°C
Sampling rate	Programmable
Command inputs	1 (display hold, key pad lock)
Outputs: Alarm	2
Analogue	1 (20 mA, 10 VDC)
Serial	RS485
Other available characteristics	Signal/disp. and analogue out. scaling. Digital filter. Peak and valley.
Power supply	24,48,115,120,230,240 VAC 9 to 32, 40 to 150 VDC
Approvals	CE, UR
Protection degree	IP65

UDM35

UDM 35 is a universal high-tech instrument that has been developed to meet the most advanced application needs. UDM35 offers to the user many solutions and advantages that can be summarized in:

- quick assembly and maintenance using plug and play modules;
- easy and quick parameter programming and parameter cloning on other UDM's by means of UdmSoft or PC Hyperterminal;

- powerful variable control by means of up to 4 alarms;
- remote control facilities like analogue output and RS485, RS232 communication ports.

The different types of alarm controls:

- up-down functions with automatic reset;
- up-down functions with manual reset;
- down with disabling function at power-on.

These alarms can be combined so to have up to 4 abnormal steps notified as pre-alarms and alarms.

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 + dummmy 0, red LED (4-DGT in case of tacho 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 sticking 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/s
Command inputs		1 (display hold, key pad lock or latch alarm reset)
Outputs:	**Alarm**	Up to 4
	Analogue	1 (20mA,10VDC)
	Serial	RS485, RS232
Other available characteristics		Signal/display scaling. Analogue 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; c CSA us and UR
Protection degree		IP65

UDM40

UDM40 has the same basic characteristics of UDM35. Other benefits can be summarized as follows:

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

UDM40

Description		4-DGT µP-based controller with modular housing
Housing (H x W x D)		48 x 96 x 105 mm
Mounting		Panel mounting
Display type		4-DGT, colour 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 sticking 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/s
Command inputs		1 (display hold, key pad lock or latch alarm reset)
Outputs:	**Alarm** **Analogue** **Serial**	Up to 4 1 (20mA, 10VDC) 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; c CSA us and UR
Protection degree		IP65

Alarm status given at a glance using the easy traffic lights principle. The instrument may show the alarm status based on a sequence of colours that can be programmed by the user.

UDM60

The successful and unique UDM series is now gaining a new model: UDM60, a universal tachometer and counter with dual indication. One advanced unit capable to display simultaneously two independent variables like being two instruments in one. This solution allows the user to save both space on the control-gear and money. This unique feature as well as its modular philosophy show at a glance an accurate digital readout but also the behaviour of the instantaneous variable versus its full-scale. The heart of the instrument is the BQ TFx module which can be combined with the existing UDM series providing a 4-digit readout which is red for UDM35 and red-amber-green for UDM40. The same inputs (A and B) can also be connected between each other to provide specific controls and display functions like 1/A, A/B, A-B, (A-B)/B and B/(A+B) so to manage, for instance, speed or frequency difference or rate.

UDM60	
Description	6-DGT µP-based controller with modular housing
Housing (H x W x D)	48 x 96 x 105 mm
Mounting	Panel mounting
Display type	6-DGT, LCD backlighted display
Variables on display	YES
Measured signals	Speed, frequency, rate, period, totalizer (0.001Hz to 50kHz)
Type signals	DC or AC
Engineering units	Self sticking label set
Accuracy	±(0.001%RDG + 3DGT)
Temperature drift	±100ppm/°C
Sampling rate	5 times/s
Command inputs	1 (display hold, key pad lock or latch alarm reset)
Outputs: Alarm	Up to 4
Analogue	1 (20mA, 10VDC)
Serial	RS485, RS232
Other available characteristics	Signal/display scaling. Analogue 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; c CSA us and UR
Protection degree	IP65

USC

The winning point of the USC "Universal Signal Conditioner" is its architecture. It is formed by a module holder on which it is possible to plug in modules with different purposes: power supply-measurement-alarm control-signal retransmission. The different combination of the modules allows to have a simple signal conditioner or a very sophisticated controller with communication port.
The main advantages given by USC can be summarized as follows:

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	NO
Variables on display	NO
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, totalizer
Type signals	DC and AC TRMS
Engineering units	NO
Accuracy	DC: ±(0.1%RDG + 3DGT) AC: ±(0.3%RDG + 3DGT) RPM/Hz: ±(0.001%RDG + 3DGT)
Temperature drift	±150ppm/°C
Sampling rate	5 times/s
Command inputs	1 (latch alarm reset)
Outputs: **Alarm**	Up to 4
Analogue	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 up to 16 points.
Power supply	90 to 260 AC/DC, 18 to 60V AC/DC
Approvals	CE; c CSA us and UR
Protection degree	IP20

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

- easy and quick parameter programming and parameter cloning on other USC's by means of UscSoft or PC Hyperterminal;
- powerful variable control by means of up to 4 alarms;
- remote control facilities like analogue output and RS485, RS232 communication ports;
- management of non linear signals coming from special process transmitters using a 16-point linearization capability;
- reliable information to the process, working out a complex or disturbed signal by a programmable input integration time and/or smart digital filter;
- speed, frequency, rate, period and totalizer functions as UDM60.

Accuracy of the main variables

Front housing protection degree

Display digits and (sampling rate)

3-colour display

Excitation output

"Traffic light" function. Alarm level connected to the display colour

Pulse measuring input

Peak and valley function

Digital filter with action on the display and signal outputs

Integration time

Linearization

Instantaneous variables displaying

Analogue output for variable retransmission

Alarm outputs for variable control

Digital inputs for external command

Communication port

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OUR PRODUCTION SITES

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Hadsten - **DENMARK**

Uab Carlo Gavazzi Industri Kaunas
Kaunas - **LITHUANIA**

Carlo Gavazzi Ltd
Zejtun - **MALTA**

Carlo Gavazzi Automation
(Kunshan) Co., Ltd.
Kunshan - **CHINA**

Carlo Gavazzi Controls SpA
Controls Division
Belluno - **ITALY**

Carlo Gavazzi Controls SpA
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