Variohm
Eurosensor

Displays

- Multiple input signals
- Wide range of options and analysing functions
- Competitively priced

OM402

OMB402

Variohm instrument displays are multifunction devices which can handle all common signals and requirements by simple programming or with a wide range of available options.

Model	OM402	OM502	OM602	OM408	OMB402
Display	999999 digit h 14mm,red or green LED digit h 20 mm, red/green/ orange LED	999999 digit h 14mm,red or green LED	999999 digit h 14mm,red or green LED digit h 20 mm, red/green/ orange LED	999999 digit h 14mm,red or green LED	horizontal design 30 tri-color LED+display 999999 vertical design 24 tri-color LED + display 999
Projection	±9999 Programmable	±99999 Programmable	±999999 Programmable	±9999 Programmable	30/24 LED + auxiliary display Programmable
Input	UNIVERSAL INSTRUMENT OM 402UNI DC: ±60/±150/±300/±1 200 mV PM: 0…5 mA/0…20 mA/4…20 mA/±2 V/±5 V/±10 V/±40 V OHM: 0…100 Ω/1 kΩ/10 kΩ/ 100 kΩ/Auto RTD: Pt 50/100/Pt 500/ Pt 1 000 CU: Cu 50/Cu 100 NI: Ni 1 000/Ni 10 000 T/C: J/K/T/E/B/S/R/N/L DU: Linear potentiometer (min. 500 Ω) Typ UNI, option A DC: ±0,1/±0,25/±0,5/±2/±5 A/ ±100 V/±250 V/±500 V Type UNI, option B (options: additional 3 inputs) PM: 3x 0…5 mA/0…20 mA/ 4…20 mA/±2 V/±5 V/±10 V/ ±40 V POWER ANALYSER OM 402PWR INPUT U: 0…10 V/0…120 V/ 0…250 V/ 0…450 V INPUT I: 0…60 mV/150 mV/ 300 mV/ 0…1 A/2,5 A/5 A AC	DISPLAY FOR STRAIN GAUGES OM 502T 1…..4/8/16 mV/V scale size 0,001…100 supply 4 sensors weighing function	UNIVERSAL COUNTER OM 602UQC Measuring mode 1x UP or DOWN + frequency 2x UP or DOWN 1x UP/DOWN + frequency 1x UP/DOWN (IRC sensors) frequency/period/repeat/phase stopwatch/watch inputs NPN, PNP, on contact < 800 kHz, for IRC: 400 kHz SERIES LINES DATA DISPLAY OM 602RS INPUT: RS 232/RS 485 Protocol: ASCII, DIN Messbus, Modbus-RTU, PROFIBUS DP 150…230 400 Baud (12 MBaud) 7 bit+even parity+1 stop bit 8 bit+no parity+1 stop bit PROGRAMMABLE ANALOG OUTPUT OM 602AV	UNIVERSAL 8-CHANNEL INSTRUMENT OMU 408UNI 4 /8 inputs DC: ±60/±150/±300/±1 200 mV PM: 0…5 mA/0…20 mA/4…20 mA/ ±2 V/±5 V/±10 V/±40 V OHM: 0…100 Ω /0…1 kΩ/ 0…10 kΩ/ 0…100 kΩ RTD: Pt 50/100/Pt 500/Pt 1 000 CU: Cu 50/Cu 100 NI: Ni 1 000/Ni 10 000 T/C: J/K/T/E/B/S/R/N/L DU: Linear potentiometer (min. 500 Ω) Inputs do not have galvanic isolation	UNIVERSAL INSTRUMENT OMB 402/412UNI DC: ±60/±150/±300/±1 200 mV PM: 0…5 mA/0…20 mA/4…20 mA/±2 V/±5 V/±10 V/±40 V OHM: 0…100 Ω/0…1 kΩ/0…10 kΩ/0…100 kΩ/Auto RTD: Pt 50/100/Pt 500/Pt 1 000 CU: Cu 50/Cu 100 NI: Ni 1 000/Ni 10 000 T/C: J/K/T/E/B/S/R/N/L DU: Linear potentiometer (min. 500 Ω) Type UNI, option A DC: ±0,1/±0,25/±0,5/±2/±5 A/ ±100 V/±250 V/±500 V POWER ANALYSER OMB 402/412PWR INPUT U: 0…10 V/120 V/250 V/ 450V INPUT I: 0…60 mV/150 mV/300 mV/0…1 A/2,5 A/5 A AC UNIVERSAL COUNTER OMB 402/412UQC Measuring mode 1x UP/DOWN + frequency 1x UP/DOWN (IRC sensors) Frequency/period/stopwatch/ watch NPN, PNP, on contact, < 800kHz
Output	Switch: 1…4 relays Limit/Dose/from-to **Analog**: 0…5 mA/ 0/4…20 mA/ 0…2/5/10 V universal, programmable, isolated **Digital:** RS 232, RS 485, ASCII, MessBus, ModBus, Profibus	Switch: 1…4 relays Limit/Dose/from-to **Analog:** 0…5 mA/ 0/4…20 mA/ 0…2/5/10 V universal, programmable, isolated **Digital:** RS 232, RS 485, ASCII, MessBus, ModBus, Profibus	Switch: 1…4 relays Limit/Dose/from-to **Analog:** 0…5 mA/ 0/4…20 mA/ 0…2/5/10 V universal, programmable, isolated **Digital**: RS 232, RS 485, ASCII, MessBus, ModBus, Profibus	Switch: 1…4 relays Limit/Dose/from-to **Analog:** 0…5 mA/ 0/4…20 mA/ 0…2/5/10 V universal, programmable, isolated **Digital:** RS 232, RS 485, ASCII, MessBus, ModBus, Profibus	Switch: 1…4 relays Limit/Dose/from-to **Analog:** 0…5 mA/0/4…20 mA/ 0…2/5/10 V universal, programmable, isolated Digital: RS 232, RS 485, ASCII, MessBus, ModBus, Profibus
Functions	OM-Link; Digital filters, Rounding, Hold, Control keys locking, Tare, Min/max. value, Peak value, Mathematic operations, Linear interpolation in 50 points *Measured data logging by RTC/FAST Instrument SW verification pursuant to standard IEC 62138 category B or C	OM-Link; Digital filters, Rounding, Hold, Control keys locking, Tare, Min/max. value, Peak value, Mathematic operations, Linear interpolation in 50 points, Weighing function (T) *Measured data logging by	OM-Link; Calibration and filtration constant Digital filters, Rounding Hold, Control keys locking, Tare Min/ max. value, Math. operations Summation, Pre-division, Preset, *Time backup *Measured data logging by RTC/FAST	OM-Link; Digital filters, Rounding, Hold, Control keys locking, Tare, Min/max. value, Peak value Math. operations, Linear interpolation in 50 points *Measured data logging by RTC/FAST Instrument SW verification pursuant to standard IEC 62138 category B or C	OM-Link; Digital filters, Rounding, Hold, Control keys locking, Tare, Min/max. value, Peak value Mathematic operations, Linear interpolation in 50 points, Summation, Pre- division, Preset, *Time backup *Measured data logging by RTC/FAST
Excitation	5…24 VDC/max. 1,2 W		5…24 VDC/max. 1,2 W	5…24 VDC/max. 1,2 W	5…24 VDC/max. 1,2 W
Powersupply	10…30 V AC/DC, 13,5 VA 80…250 V AC/DC, 13,5 VA	10…30 V AC/DC, 13,5 VA 80…250 V AC/DC, 13,5 VA	10…30 V AC/DC, 13,5 VA 80…250 V AC/DC, 13,5 VA	10…30 V AC/DC, 13,5 VA 80…250 V AC/DC, 13,5 VA	10…30 V AC/DC, 13,5 VA 80…250 V AC/DC, 13,5 VA
Front dimension/ panel cut	96 x 48 mm / 92 x 45 mm	96 x 48 mm / 90,5 x 45 mm	96 x 48 mm / 90,5 x 45 mm	96 x 48 mm / 90,5 x 45 mm	96 x 48 mm / 90,5 x 45 mm
Depth	102 mm	102 mm	102 mm	102 mm	102 mm
Sealing (front)	IP65	IP65	IP65	IP65	IP65

Variohm Group

Subject to change without notice

Variohm
Eurosensor

Large displays

- All common input signals available
- Several BUS signals available
- Various options and functions

The OMD202 large displays offer the typical flexibility for use in every application.

OMD202

Series	Display	Projection	Output	Function	Power supply	Dimensions	Sealing
OMD202	999999, height 57/100/125 mm red/ green/orange	999999 Programmable	**Switch**: 1…4 relays - Limit/Dose/from-to **Analog:** 0…5 mA/0/ 4…20 mA/ 0…2/5/10 V universal, programmable, isolated **Digital:** *RS 232, RS 485, ASCII, MessBus, ModBus, Profibus	**OM-Link,** Digital filters, Rounding, Hold, Control keys lock,Tare, Min/ max. value, Mathematic operations, Linearisation, Summation, Pre-division, Preset,*Time backup; Measured data logging by RTC/FAST	10…30 V AC/DC, 27 VA 80…250 V AC/DC, 27 VA	372 x 116… 752 x 232 mm depth: 80 mm	IP64

Model	OMD202UNI	OMD202PWR	OMD202UQC	OMD202RS
Input	**UNIVERSAL INSTRUMENT** OMD 202UNI DC: ±60/±150/±300/±1 200 mV PM:0…5 mA/0…20 mA/4…20 mA/±2 V/±5V/±1V/±40 V OHM: 0…100 Ω/0…1 kΩ/0…10 kΩ/0…100 kΩ/Auto RTD: Pt 50/100/Pt 500/Pt 1 000 CU: Cu 50/Cu 100 NI: Ni 1 000/Ni 10 000 T/C: J/K/T/E/B/S/R/N/L DU: Linear potentiometer(min. 500 Ω) Typ UNI, option A DC: ±0,1/±0,25/±0,5/±2/±5 A/±100 V/±250 V/±500 V	**NETWORK ANALYSER** Input U: 0 ... 10 V/120 V/250 V / 450 V Input I: 0 ... 60 mV/150 mV/300 mV / 0 ... 1 A / 5 A AC	**UNIVERSAL COUNTER** 1x up / down + frequency 1x UP / DOWN (IRC) sensor frequency / period / stopwatch / clock NPN, PNP, on contact, <800 kHz	**DATA DISPLAY** Input: RS 485 232/RS Protocols: Modbus, PROFIBUS

Signal transmitters

- All common signals
- DIN-Rail mount
- Multiple integrated functions

The OMX signal transmitters allow the easy integration of all common sensor signals into the processes by analog or digital interfaces.

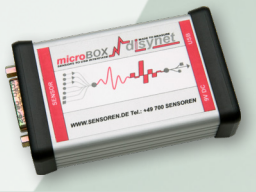
OMX

Sampling	Input UNI	Accuracy	Output	Functions
0,05...7500/s	**UNIVERSAL INSTRUMENT** OMX 102UNI DC: ±60/±150/±300/±1 200 mV PM: 0…5 mA/0…20 mA/4…20 mA/±2 V/±5 V/±10 V/±40 V OHM: 0…100 Ω /0…1kΩ/ 0…10 kΩ/0…100 kΩ RTD: Pt 50/100/Pt 500/Pt 1 000 CU: Cu 50/Cu 100 NI: Ni 1 000/Ni 10 000 T/C: J/K/T/E/B/S/R/N/L DU: Linear potentiometer (min. 500 Ω)	± 0,2%	**Analog:** 0/4…20 mA/0…2/5/10 V/0…2 kHz universal, programmable, isolated **Switch:** 2 relays (230 VAC/30 VDC, 3 A) Hysteresis, delay **Digital:** RS 232, RS 485, HART ASCII, MessBus, ModBus, Profibus	**OM-Link,** Digital filters, Rounding, Hold, Linear interpolation in 25 points, Summation, Calibration and filtration constant Pre-division, Preset, Measured data logging by RTC/FAST Instrument SW verification pursuant to standard IEC 62138 category B or C

- Multichannel-USB-Transmitter
- Full data - acquisition system
- Integrated amplifier

The Microbox signal transmitter module is ideal for data acquisition via PC or Notebook USB-Port for multiple sensors.

Microbox



Input channels	Transfer rate	Resolution	Input signals	Output	Evaluation	Excitation	Supply
5 Analog channels, 1 digital, 1 counter	4/sec 4k/sec 50k/sec	21 bit 15 bit 10 bit	**Analog:** channel 1 to 3: +/-10 mV to +/-10 V channel 4: 5 V , 10 V channel 5: +5 V **Digital:** TTL-compatibel, -0,5 to +6 V counter: Max. Freq.:5 MHz,	USB-B Port	by own logging software; Labview a.o. drivers are available	±5 V, ±12V regulated, reverse polarity protected	by USB, on demand by (9V, 1A) external power supply