

Data Logger UNIMOS

The efficient information system for sophisticated piping management and water leakage analysis



- Single- and multi-channel data logger for pressure- and flow recording.
- Riskless data reading without manhole.
- Transmission in the fixed line telephone network with Zero-Power-Modem.
- Data transfer also in the GSM net with or without power supply.
- Automatic or manual reading.
- Battery durability > 5 years.
- Radical decrease of water loss due to immediate detection.

Data Logger UNIMOS

For complete data recording round-the-clock



UNIMOS		400 LL	600
Flow recording	Reed, potential-free pulse	■	■
Pressure recording	Pressure sensor internal/external	■	■
Current reading	Fill level / temperature etcetera	■	■
	Fill level using pressure sensor	-	■
Status signal	On / Off	-	■
Channels	Configuration	1, 2	1, 2, 3, 4, 8, 16
LC-Display	optional	■	-
Zero-Power-Modem	optional*	-	■
GSM-Modem	optional*	-	■

* Zero-Power-Modem and GSM-Modem are embedded in the UNIMOS Data logger

UNIMOS		400 LL / 400 LL Vista	600 / 600 GSM
Features			
Application	stationary	■	■
	mobile	■	■
Housing	aluminium	■	■
	IP 68 waterproof	■	■
Connector	IP 68 waterproof	■	■
Battery	lithium	■	■
Durability	years	> 5	> 5
Battery exchange (service point)	possible	■	■
Power supply unit external (optional)	230 VAC	-	■
Configuration			
Channel	number	1 / 2	1 / 2 / 3 / 4 / 8 / 16
Pulse input	Reed/potential free	■	■
Pressure sensor 0 ... 20 bar	internal	■	■
Pressure sensor 0 ... 1 bar / 20 bar	external	-	■
Analogue input	mA	■	■
	V	-	■
Status input	On-Off	-	■
Data transmission			
Interface	RS 232	■	■
Zero Power-Modem	internal	-	■
GSM Modem	internal	-	■
Unidirectional	without standby	-	■
Bidirectional	4 h standby / day	-	■
Bidirectional	10 h standby / day	-	■
Data memory			
Storage type	ring	■	■
	block	-	■
	dual-memory per channel	-	■
Capacity			
Main memory	measuring value	16 000	48 720
e.g. data-acquisition grid 15 min	approx. days	166	2 channel: 252 4 channel: 126
Memory expansion	optional	■	■
Dual-memory	measuring value	-	6 144
e.g. data-acquisition grid 30 s	approx. hours	-	2 channel: 25 4 channel: 12
Sample rate	adjustable in any order		
Main memory	1 / 5 / 10 / 15 / 30 / 60 min	■	■
	1 / 5 / 10 / 15 / 30 s	■	■
Dual-memory	1 / 5 / 10 / 15 / 30 s	-	■

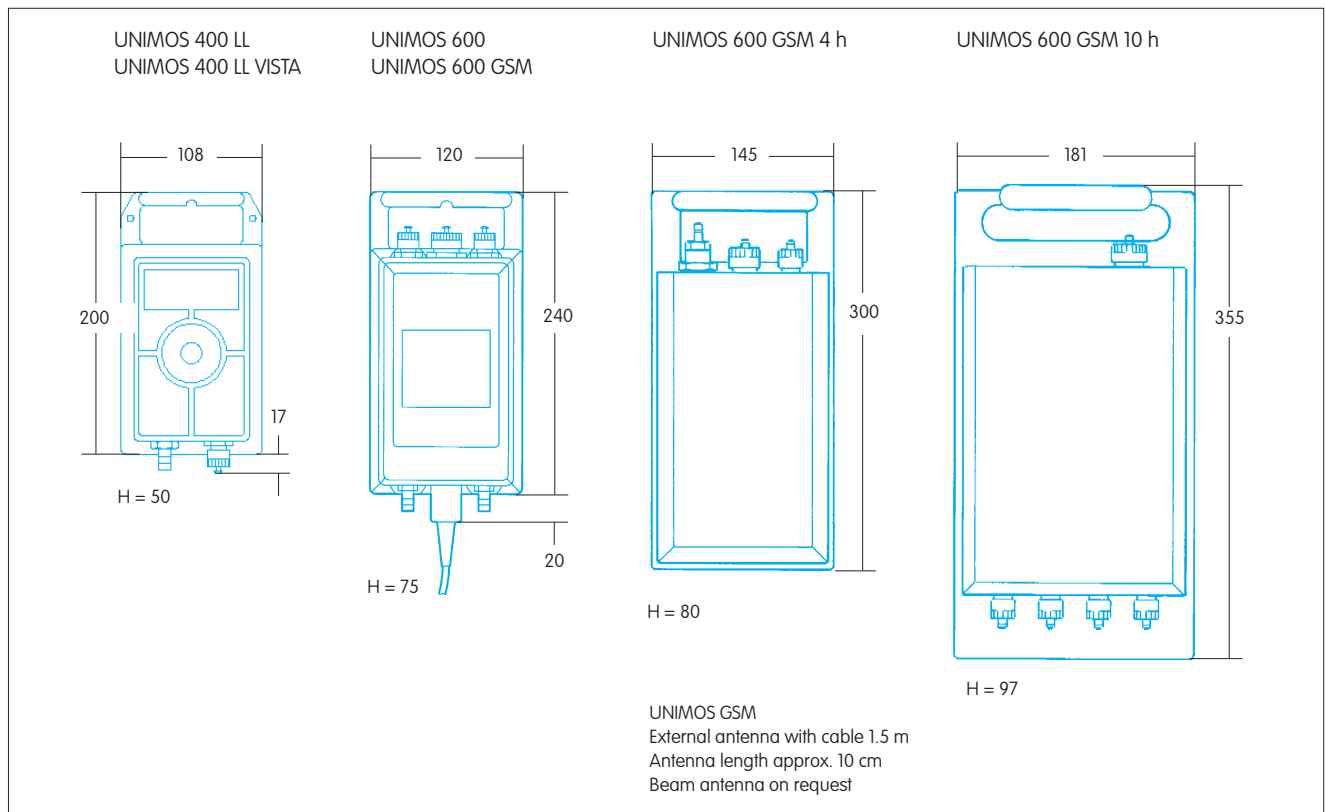
Ordering number

UNIMOS		400 LL	400 LL	400 LL
1 channel		0001407	0001390	0001388
Flow rate	pulse	■	-	-
Pressure sensor	internal	-	■	-
Analogue input	mA	-	-	■
2 channel		0001389		
Flow rate	pulse	■		
Pressure sensor	internal	■		

UNIMOS 400 LL VISTA on request

UNIMOS		600	600	600 GSM	600 GSM	600 GSM	600 GSM		
2 channel		0001396	0001394	0001397	0001391	0001378	0001373	0001379	0001374
Zero-Power-Modem		■	-	■	-	-	-	-	-
GSM-Modem	4h stand-by	-	-	-	-	■	-	■	-
	10h stand-by	-	-	-	-	-	■	-	■
Flow rate	pulse	■	■	■	■	■	■	■	■
Pressure sensor	internal	-	-	■	■	-	-	■	■
4 channel		0001398	R	0001401	R	0001380	0001376	R	0001345
Zero-Power-Modem		■	-	■	-	-	-	-	-
GSM-Modem	4h stand-by	-	-	-	-	■	-	■	-
	10h stand-by	-	-	-	-	-	■	-	■
Flow rate	pulse	■	■	■	■	■	■	■	■
Pressure sensor	internal	-	-	■	■	-	-	■	■

Other types on request. R: on request



Accessories

Accessories

Reading

Cable with IR-reading head	UNIMOS 400 LL	L 1.5 m	1075841
Cable with connector	UNIMOS 600	L 1.5 m	0615315
Modem PC-Seite	Fixed line network analogue		0611582
Surge protection device	Telephone extension fixed line network analogue		1118230
Modem PC-Seite	GSM		0759236

Flow rate recording / mA-, V-, status-input

Cable with UNIMOS connector			
Reed-contactor	MULTI-PULS / MULTI-PULS-TROPIC / TDD	L 1.5 m	0611634
Pulse connection	open end of cable	L 1.5 m	0611627
mA connection	open end of cable	L 1.5 m	1084255
V connection	open end of cable	L 1.5 m	1084263
Status signal On-Off	open end of cable	L 1.5 m	0675253

Pressure recording

Pressure sensor external			
0 ... 20 bar	Accuracy 0.5 % – quick release cuppling DN 5	L 3.0 m	0611598
0 ... 1 bar	Accuracy 0.25 % – reservoir metering	L 10.0 m	0611604
Adapter with clutch	Hydrant surface box acc. to DIN 3221		1083372
Hose	Spare part – 2 quick release DN 5	L 1.5 m	0677671

Software

Basic software	Basic equipment		0611641
Automation software	optional (precondition: basic software)		1154350
Data manager Export ASCII II	optional (precondition: automation software)		0788562
Briefing with training	incl. construction of database structure		1096156

Installation and service

Mount board	for UNIMOS 600 with Zero-Power-Modem		1090557
Installation	Hardware		R
Battery exchange	incl. general overhaul, calibration of pressure sensor external		R

R: on request

Software

Precondition Hardware

- IBM compatible PC.
- Operating system Windows 32bit.
- Random access memory 8 MB.
- RS 232 interface.

A Basic software

1. Programming and start
 - Via RS 232 interface.
 - Via Zero-Power-Modem/ GSM-Modem, manual choice.
2. Data reading
 - Via RS 232 interface.
 - Via Zero-Power-Modem/ GSM-Modem, manual choice.
3. Data management
 - Data storage: regions, Measuring points, readings.
 - Data calculation: Addition and subtraction of cumulative measuring values.
 - Indication of programming.

4. Data presentation

- Presentation in terms of schedules and graphics.
- ### 5. Data formatting
- Presentation in other formats, e.g. ASCII, manually guided.

B Automation software

- Automatically data reading via Zero-Power-Modem.
- Automatically data reading – programming via GSM-Modem.
- Alarmautomatik with indication and error schedule

C Data manager Export

- Automatic data formatting in ASCII II format.
- Automatical data export for further processing to other systems.

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Changes without notice

