



gas

heat

water

electricity

kamstrup

vemmtec
Messtechnik GmbH

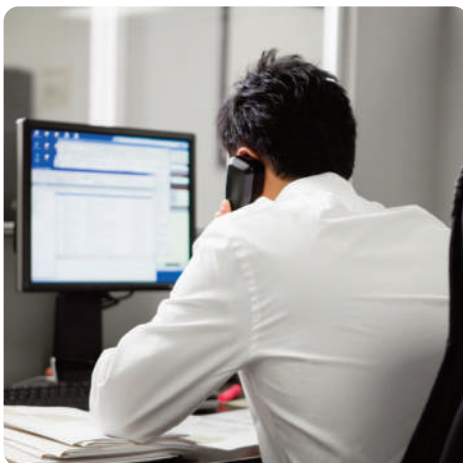
aquamotion

elster

Relay M-BUS
SOLUTIONS

Σ 15 SIGMA

Product
Catalogue



UK Metering have grown to be the **leading supplier** of **metering products** to the UK market. A dynamic and enterprising company, UK Metering have forged strong relationships with the top manufacturers to bring you the best metering products at the most competitive prices.

Our 10,000 square foot distribution centre in Nottinghamshire is easily accessible from the M1 and A1. This facility allows us to stock the full range of products shown in this catalogue as well as other specialist metering and control products.

The UK Metering sales team value every enquiry and we have a strong internal and external sales force to handle every project, no matter how large or small. With sales representatives covering the whole of the UK and Ireland, we are happy to visit your office or project site to discuss meters in more detail with you.

We also have ISO 9001 accreditation which shows our commitment to our business practices and that we do the best we can to continuously improve all of our services.

We offer a next-day delivery service on all stocked products with an order cut off time of 5pm so give us a call today on your next metering project!

If you have any questions on any of the products you see in this catalogue or would like further information, please contact the UK Metering sales team.

Sales Office and Distribution Centre Nottinghamshire
























Tel: 01623 655000

Regional Sales Office Birmingham

Tel: 0121 629 7821



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GAS METERS

WAFER PATTERN TURBINE GAS METER

- DN50 – DN200
- Wafer Pattern Type
- IP65 Protection
- Supplied with Pulse Plug and Lead
- Top Hat Filters recommended
- 8 digit mechanical counter



Part Number	Size (mm)	Min. flow q_i (m ³ /hr)	Max. flow q_s (m ³ /hr)	Body length (mm)
IGTM DN50 G40/65	50	10	100	120
IGTM DN65 G65/100	65	13	160	120
IGTM DN80 G100/160	80	10	250	120
IGTM DN80 G250	80	20	400	120
IGTM DN100 G160/250	100	13	400	150
IGTM DN100 G400	100	32	650	150
IGTM DN150 G400/650	150	32	1000	180
IGTM DN150 G1000	150	80	1600	180
IGTM DN200 G650/1000	200	50	1600	200
IGTM DN200 G1600	200	130	2500	200

ROTARY TYPE GAS METER

- DN40 – DN150
- MID Approved
- Low Pressure Drop
- Supplied with Pulse Plug and Lead
- Top Hat Filters required



Part Number	Size (mm)	Min. flow q_i (m ³ /hr)	Max. flow q_s (m ³ /hr)	Body length (mm)
FMR DN40 G25	40	0.5	40	150
FMR DN50 G65	50	1	100	150
FMR DN80 G100	80	1	160	171
FMR DN100 G160	100	1.6	250	241
FMR DN150 G400	150	4	650	260

INFORMATION

It is highly recommended that top hat filters are installed with turbine meters and required for rotary gas meters. A filter stops foreign objects from passing through the meter and if installed correctly with an IGTM gas meter then we will extend the warranty to 2 years from the standard 1 year.

GAS METERS

DIAPHRAGM TYPE GAS METER

- Suitable for Various Gases
- MID Approved
- Supplied with Pulse Lead
- Complete with Unions



Part Number	Size (mm)	Min. flow q_i (m ³ /hr)	Max. flow q_s (m ³ /hr)
UG-G4P	20	0.04	6
UG-G6P	25	0.06	10
UG-G10P	30	0.1	16
UG-G16P	40	0.16	25
UG-G25P	50	0.25	40

SCREWED TURBINE TYPE GAS METER

- Compact Size
- Maintenance Free
- Supplied with Pulse Plug
- Reducers Available to 3/4" & 1 1/4"
- Screwed BSP Connections



Part Number	Size (mm)
IGQM-10	25
IGQM-16	25
IGQM-25	25
IGQM-40	40
Min. flow q_i (m ³ /hr)	Max. flow q_s (m ³ /hr)
1.6	16
2	25
2.5	40
5	65

GAS VOLUME CORRECTOR

- Electronic converter for gas volume, pressure and temperature
- Supplied with temperature and pressure sensors
- Easy to configure
- Exceptional data storage



Product Code	Description
PTZ 3.0	Gas volume Corrector

GAS METER ANCILLARIES



Product Code	Description
CHATTERBOX-E	Isolation Unit
THF50-200	Top Hat Filter, 50 - 200mm

ENERGY METERS

KAMSTRUP MULTICAL 403 ULTRASONIC ENERGY METER

- Compact energy meter for heating, cooling or combined heating/cooling
- Suitable for water-based systems with temperatures from 2°C to 130°C
- MID Class 2 Approved and suitable for RHI
- Available with Pulse, M-Bus, and Wireless M-Bus
- 16 year battery, 24v or 230v power supply
- 1.5m, 3m, 5m or 10m PT500 pocket temperature sensors or 1.5m or 3m direct temperature sensors
- 1.5m signal cable

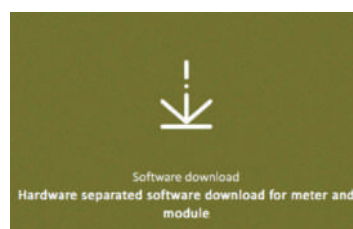
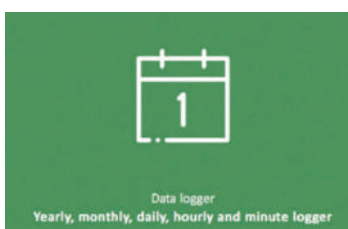
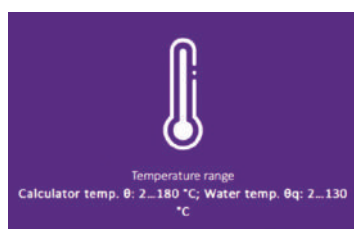
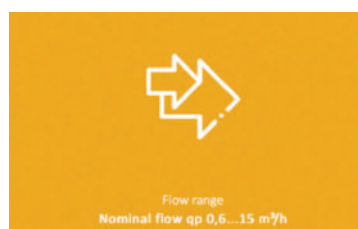


kamstrup **RHI COMPLIANT**

Part Number	Size (mm)	Nom. flow q_p (m ³ /hr)	Max. flow q_s (m ³ /hr)	Min. flow q_i (m ³ /hr)	Body length (mm)
403x10xxx	15	0.6	0.006	1.2	110
403x30xxx	20	0.6	0.006	1.2	190
403x40xxx	15	1.5	0.015	3	110
403x50xxx	15	1.5	0.015	3	165
403x70xxx	20	1.5	0.015	3	130
403x80xxx	20	1.5	0.015	3	165
403x90xxx	20	1.5	0.015	3	190
403xA0xxx	20	2.5	0.025	5	130
403xB0xxx	20	2.5	0.025	5	190
403xD0xxx	25	3.5	0.035	7	260
403xF0xxx	25	6	0.06	12	260
403xG0xxx	25	6	0.06	12	260
403xH0xxx	40	10	0.1	20	300
403xJ0xxx	40	10	0.1	20	300
403xK0xxx	50	15	0.15	30	270

A Flexible Time Saving Solution

The MULTICAL 403 is a small and compact unit, which can be installed in narrow dimensions. It is easy to adjust to the optimum display angle. e.g. residential applications. The meter fits all applications and allows individual configuration of everything from Inlet/Outlet position, energy unit much more directly on site via the front panel.



ENERGY METERS

KAMSTRUP MULTICAL 603 AND ULTRAFLOW ULTRASONIC ENERGY METER

- All purpose heating and cooling energy meter
- Suitable for water-based systems with temperatures from 2°C to 130°C
- MID Class 2 Approved and suitable for the RHI
- Available with a wide range of output modules and up to three outputs per meter, 1 integrated + 2 module slots
- 16 year battery, 24V or 230V power supply
- 1.5m, 3m, 5m or 10m PT500 pocket temperature sensors or 1.5m or 3m direct temperature sensors
- 2.5m signal cable, options for 5m or 10m extensions



kamstrup

RHI COMPLIANT

Modbus

M-Bus

M-Bus
wireless

BACnet

RADIO

Part Number	Size (mm)	Nom. flow q_p (m ³ /hr)	Max. flow q_s (m ³ /hr)	Min. flow q_i (m ³ /hr)	Body length (mm)
65-X-CDAA-XXX	15	1.5	3.0	0.015	110
65-X-CEAF-XXX	20	2.5	5.0	0.025	130
65-X-CGAG-XXX	25	3.5	7.0	0.035	260
65-X-CHAG-XXX	25	6.0	12	0.06	260
65-X-CHAH-XXX	32	6.0	12	0.06	260
65-X-CJAJ-XXX	40	10	20	0.1	300
65-X-CJCD-XXX	40	10	20	0.1	300
65-X-CKCE-XXX	50	15	30	0.15	270
65-X-CLCG-XXX	65	25	50	0.25	300
65-X-CMCH-XXX	80	40	80	0.4	300
65-X-FACL-XXX	100	60	120	0.6	360
65-X-FBCL-XXX	100	100	200	1.0	360
65-X-FBCM-XXX	125	100	200	1.0	350
65-X-FCCN-XXX	150	150	300	1.5	500
65-X-FECP-XXX	200	400	800	4.0	500
65-X-FFCR-XXX	250	600	1200	6.0	600
65-X-FGDS-XXX	300	1000	2000	10	500



Type - Ranges q_p
Ultrasonic q_p 0.6 and q_p 1,000 m³/h



Water temperatures
Heating 2°C...180°C, Cooling 2°C...50°C



Data logger
1392 hours + 460 days + 36 months + 15 years, Interval 1-1440 min.

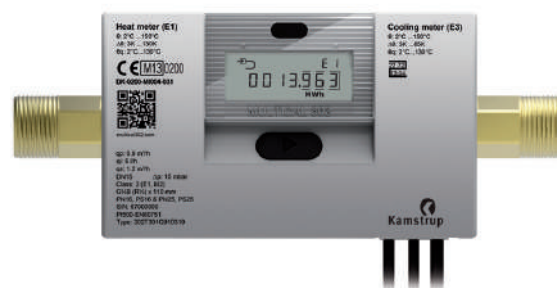


Communication
More than 10 protocols, wired or wireless

ENERGY METERS

KAMSTRUP MULTICAL 302 ULTRASONIC ENERGY METER

- Compact residential heat and cooling meter for all applications
- Flow or return installation position, programmable on site
- Suitable for water-based systems with temperatures from 2°C to 130°C
- MID Class 2 Approved and suitable for the RHI
- Available with M-Bus or Wireless M-Bus
- 6 year battery life
- 1.5m PT500 direct temperature sensors, 1.2m signal cable

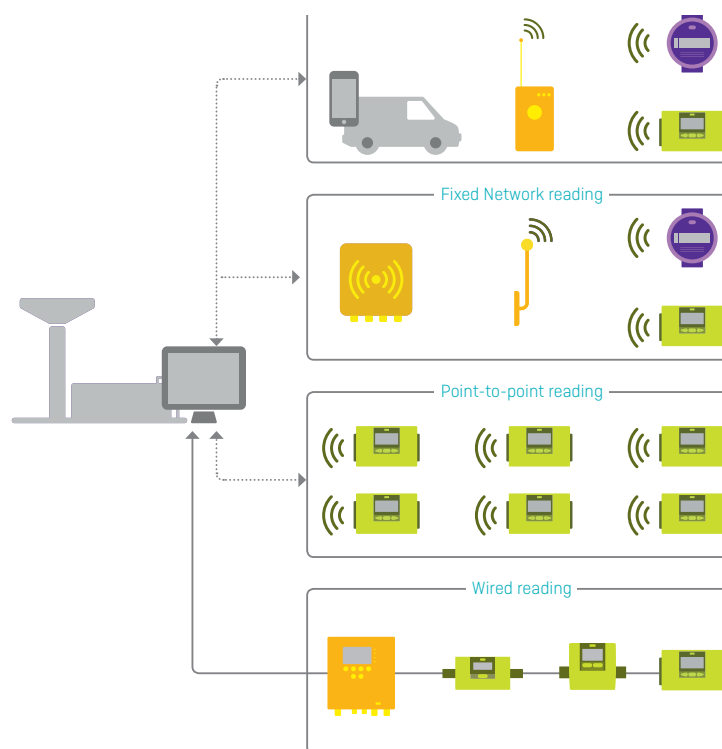


kamstrup **RHI COMPLIANT**

Part Number	Size (mm)	Nom. flow q_p (m ³ /hr)	Max. flow q_s (m ³ /hr)	Min. flow q_i (m ³ /hr)	Body length (mm)
302TxxxQ910xxx	15	0.6	1.2	0.006	110*
302TxxxQ940xxx	15	1.5	3.0	0.015	110*
302TxxxQ970xxx	20	1.5	3.0	0.015	130*
302TxxxQ9A0xxx	20	2.5	5.0	0.025	130*

*Other body lengths are available (165mm, 190mm, 220mm)

REMOTE READING



UK Metering can offer remote reading solutions for all sizes of systems from simple “walk-by” systems to fixed networks suitable for up to 100,000 meters.

We can design, supply, install and commission a suitable meter reading system for your project.



COMMISSIONING

COMMISSIONING

Energy meters rely upon correct installation, inter-connection of their component parts and the parameters to be correctly configured, any failure to comply fully with these requirements may result in an error to the measurement of the energy consumed.

This is especially significant in conjunction with meters used for RHI purposes. The Renewable Heat Incentive scheme requires evidence such as "commissioning certificates, reports and photographs of the installation clearly showing the serial number of the equipment" (Ofgem, 2011).

UK Metering offer a commissioning service where we will also seal the meter and component parts to fully comply with the RHI scheme and allow an application to be submitted for approval.

Our commissioning procedure will also ensure that the function of the meter is such that optimum accuracy is achieved.

What's included?

- Confirm the meters are installed, set-up and working correctly
- Check all connections/terminals are wired correctly and securely
- Ensure the operating conditions are within the specification of the meters
- Sealing of meters to prevent tampering
- A certificate stating the serial number, location & confirming all checks have been completed

Here are a few projects where we have performed our commissioning services:



Walkie Talkie, London



UBS Bank, London



Arla Foods, Aylesbury



Cheesegrater, London



Center Parcs, Woburn



Riverwalk, London



Alderhey Childrens Hospital
Liverpool



Resort World, NEC
Birmingham



Warner Brothers Studios
Watford

WATER METERS

AQUAMOTION MULTI JET WATER METER

- Rated to 30°C or 90°C
- Cold (T30) - WRAS and MID Approved
- Hot (T90) - MID Approved
- Dry dial
- Screwed BSP connections included
- 1.5m pulse cable supplied as standard
- Pressure Rated to 16 Bar



Part Number	Size (mm)	Nom. flow q_n (m ³ /hr)	Max. flow q_{max} (m ³ /hr)	Min. flow q_{min} (m ³ /hr)	Body length (mm)
S15MJ*	15	1.5	3.0	0.03	165
S20MJ*	20	2.5	5.0	0.05	190
S25MJ*	25	3.5	7.8	0.07	260
S32MJ*	30	6	12.5	0.12	260
S40MJ*	40	10	20.0	0.20	300
S50MJ*	50	15	31.3	0.31	300

*C for cold versions and H for hot versions

AQUAMOTION WOLTMANN TYPE WATER METER

- Rated to 30°C or 90°C
- Cold (T30) - WRAS and MID Approved
- Hot (T90) - MID Compliant/ISO Approved
- Dry dial
- Flanged connections
- 1.5m pulse cable supplied as standard
- Pressure rated to 16 Bar



Part Number	Size (mm)	Nom. flow q_n (m ³ /hr)	Max. flow q_{max} (m ³ /hr)	Min. flow q_{min} (m ³ /hr)	Body length (mm)
F50W*	50	15	30	0.45	200
F65W*	65	25	50	0.75	200
F80W*	80	40	80	1.20	225
F100W*	100	60	120	1.80	250
F125W*	125	100	200	3.00	250
F150W*	150	150	300	4.50	300
F200W*	200	250	500	7.50	350
F250W*	250	400	800	12.0	450
F300W*	300	600	1200	18.0	500

*C for cold versions and H for hot versions

WATER METERS

KAMSTRUP MULTICAL® 21 ULTRASONIC WATER METER



- Rated to 30°C or 70°C
- Cold (T30) – WRAS and MID Approved
- Hot (T70) – MID Approved
- Screwed BSP Connections included
- Wireless M-Bus or Sigfox
- Wired M-Bus with 1.5m cable
- No moving parts, pinpoint accuracy



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Part Number	Size (mm)	Nom. flow q_n (m ³ /hr)	Max. flow q_{max} (m ³ /hr)	Min. flow q_{min} (m ³ /hr)	Body length (mm)
021-YY-C0A-XXX	15	1.6	2.0	0.01	110
021-YY-C0D-XXX	15	2.5	3.1	0.01	110
021-YY-C0H-XXX	20	2.5	3.1	0.01	130
021-YY-C0L-XXX	20	4.0	5.0	0.02	130

KAMSTRUP ULTRASONIC WATER METERS

- Ultrasonic Flow Sensor
- MID Approved
- No Wear and Long Lifetime
- Hot and Cold Versions Available



kamstrup

Part Number	Size (mm)	Nom. flow q_n (m ³ /hr)	Max. flow q_{max} (m ³ /hr)	Min. flow q_{min} (m ³ /hr)	Body length (mm)
65-2-CDAA-XXX	15	1.6	2.0	0.01	110
65-2-CEAF-XXX	20	2.5	3.1	0.02	190
65-2-CGAG-XXX	25	4.0	5.0	0.04	260
65-2-CHAG-XXX	25	6.3	7.9	0.06	260
65-2-CJAJ-XXX	40	10	12.5	0.10	300
65-2-CKCE-XXX	50	16	20	0.16	270
65-2-CLCG-XXX	65	25	31.3	0.25	300
65-2-CMCH-XXX	80	40	50	0.40	300

WATER AND GAS CONTROLS

WATER SOLENOID VALVES

- WRAS Approved
- 15mm – 50mm
- Brass Body
- 230v or 24v Coil



Part Number	Size (mm)	Body Length (mm)
WSV7115	15	80
WSV7120	20	90
WSV7125	25	109
WSV7132	32	120
WSV7140	40	130
WSV7150	50	162



GAS SOLENOID VALVES

- 230v, Auto-Reset
- Screwed Connection (½" to 2") and flanged connection (2½" to 8")

Part Number	Size (mm)	Body Length (mm)
GVA15	15	72
GVA20	20	86
GVA25	25	100
GVA30	32	150
GVA40	40	150
GVA50	50	170
GVA65F	65	310
GVA80F	80	310
GVA100F	100	310
GVA125F	125	350
GVA150F	150	480
GVA200F	200	600



GAS DETECTION

- GasGuard 1 Gas Proving System
- No commissioning required
- Interfaces for; Gas Sensors, CO2 Monitor, Ventilation, BMS, Remote Stop and Fire Alarm



WATER LEAK DETECTION

- BREEAM Approved
- Single or Dual Zone leak detection

BREEAM®



ELECTRICITY METERS

SMARTAIL X100 SERIES

- DIN Rail Mounted, 2 module
- Single Phase Networks
- MID Approved
- 230V AC, 100A Direct Connected



Part Number	Description
X100B-MID	Single Phase Electricity Meter, Pulse Output
X100-MID	Single Phase Electricity Meter, RS485 Modbus RTU & Dual Pulse Output

SMARTAIL X835 SERIES

- DIN Rail Mounted, 4 module
- Single & Three Phase Networks
- MID Approved
- Current Transformer & Direct Connected



Part Number	Description
X835-100-MID	Direct Connect, Three Phase Electricity Meter, RS485 Modbus RTU & Dual Pulse Output
X835-MID	CT Connect, Three Phase Electricity Meter, RS485 Modbus RTU & Dual Pulse Output

CONTROL VALVES & ACTUATORS

UK Metering can offer control valves and actuators from industry leading manufacturers such as Belimo, Danfoss and Siemens.

If you require control valves and actuators and would like to package these together with our metering solutions, please contact us.



BELIMO®

Danfoss

SIEMENS

METER READING SOLUTIONS

RELAY WEBLOG 250

- Mbus Data Logger for 250 Meters
- 7" LED Touchscreen
- Remote Readout via Web Browser
- USB, Ethernet, W-LAN, RS232C, Modem (Analogue/GPRS)
- Data Export as XML, XLSX, CSV via Email, FTP, USB



NEW



Relay M-BUS SOLUTIONS

Product Code	Description
WEBLOG250	Mbus Data Logger for up to 250 meters

RELAY M-BUS CONVERTERS



Product Code	Description
PMB1	Pulse to M-Bus converter for one meter with pulse output
PMB2	Pulse to M-Bus converter for two meters with pulse outputs
PMB4	Pulse to M-Bus converter for four meters with pulse outputs
M-BUS SPLITTER	Splitter for connecting up to 4 Meters to 2 M-Bus masters
MR003USB	M-Bus Micro-Master with USB cable for 10 devices
PW3	M-Bus level converter for 3 devices
PW20	M-Bus level converter for 20 devices
PW60	M-Bus level converter for 60 devices
PW250	M-Bus level converter for 250 devices

Other M-Bus masters are available, please contact us for more information.

ELVACO M-BUS GATEWAYS

- M-Bus Metering Gateway
- GSM Mobile or Fixed Ethernet Network
- Up to 256 M-Bus Meters



elvaco

Product Code	Description
CM2100	M-Bus Metering Gateway, GSM Mobile Network
CM3100	M-Bus Metering Gateway, Fixed Ethernet Network

Some of the organisations that benefit from our products and expertise



20 FENCHURCH STREET





Quality Metering Solutions

Metering, monitoring and control products



Technical Sales Support

Extensive product knowledge and experience



On-site Services

Meter and system commissioning available



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