

# PolluCom C

CARTRIDGE HEAT METER

## SPECIAL FEATURES

**Compact cartridge meter** with coaxial connection and permanently connected forward flow sensor plus integral backflow sensor – comes complete as a calibrated unit

**Comprehensive 8 – digit LCD display** - with adjustable masking

**Option of entering M-bus secondary address and customer number directly into meter unit** - without any other device

**Optimal mini – bus interface** - for inexpensive remote reading

**Optical data interface** for reading with handheld systems

**Storage of 16 "monthly values"** of data to facilitate monthly heat consumption calculations

**Tariff function** for flexible heat consumption calculations (for example dependent on heating power)

**Also available** as the PolluCom C/S with removable register



## NEW : DIRECTLY COMPATIBLE WITH ALLMESS CARTRIDGE HEAT METERS

There is also a version - **the PolluCom C/S RA** - that is directly compatible with the Allmess heat meter models.

- Integral-MK MaXX
- CF Kompact MK
- CF Sensor MK
- Each in Qp 1 and Qp 1.5
- PTB approved in Class C

(designated Class A in Germany in line with national specification)

With compatible temperature sensors (50 mm installed length, 6 mm diameter, 3- way rolled in)

Generally as a split version

**The PolluCom C/S RA fits directly into the particular original housing without additional adapters and with identical handling operations**

- Saves costs and assembly work for the adaptation
- Avoids additional sealing points

**The safe, clean, rational solution**

## REMOTE METER READING OPTIONS

PolluCom C, and also the PolluCom C/S RA, is available with 3 different factory fitted communication modules for remote readout:

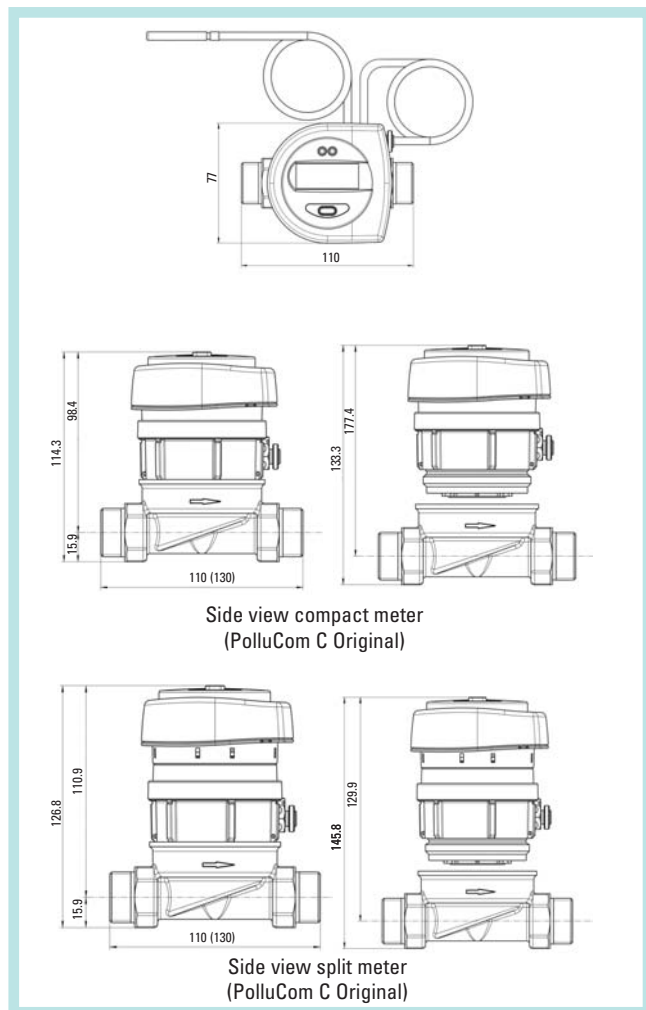
**M-Bus module in accordance with EN 1434-3** to read the meter with an M-Bus level converter via its primary or secondary address (both addresses may be set directly at the meter without any additional hardware and software).

**Mini-Bus module** for meter reading via an external inductive data coupler (max. distance from meter of 50m)

**Remote meter reading module** for transmission of potential – free heat value pulses (only with the PolluCom C/S Split Version)

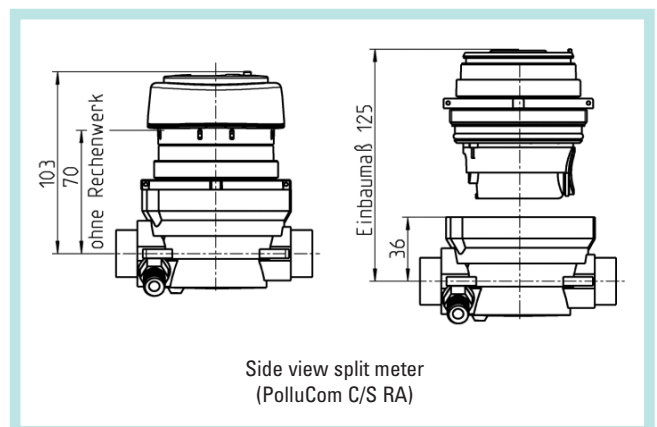
- Pulse value: 1 kWh
- Frequency: ca. 125 ms
- Bounce time: none
- Max. voltage: 28 V DC or AC
- Max. current: 0,1 A
- Protection resistor: 100 Ohm

## DIMENSIONAL DRAWINGS

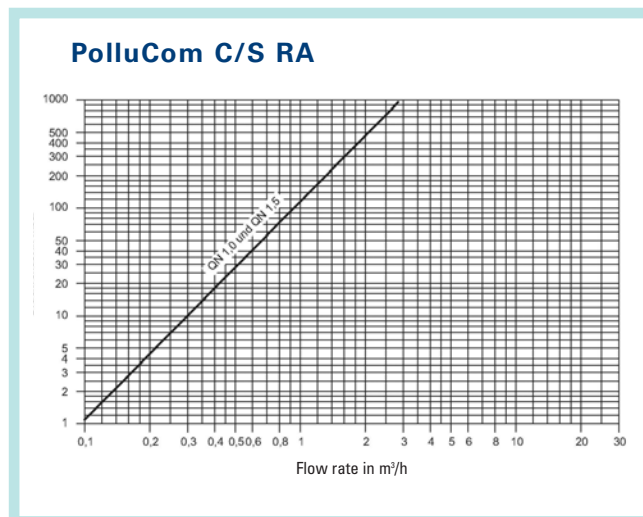
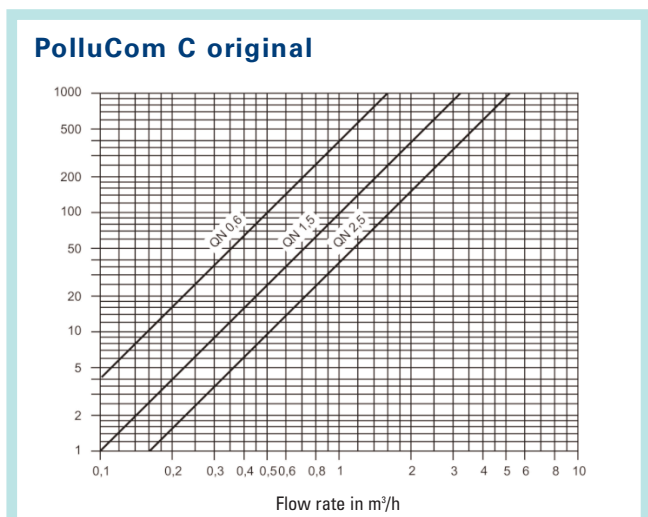


## PERFORMANCE DATA

Size designation	PolluCom C original			PolluCom C/S RA	
	QN 0.6	QN 1.5	QN 2.5	QN 1	QN 1.5
Nominal flow rate Qn in m³/h	0.6	1.5	2.5	1.0	1.5
Minimal flow rate Qmin in m³/h	0.006	0.015	0.025	0.010	0.015
Measuring range (Qmin/ Qn) in m³/h	1 : 100				
Starting flow *) in m³/h	0.0015	0.0025	0.003	0.0025	0.0025
Temperature measurement range	5 ... 150 °C				
Temperature differential range	3 ... 100 K				
Permissible temperature in volume measurement section	10 ... 90 °C (kurzzeitig: 110 °C)				
Lower operating range Q <sub>min</sub> in l/h and ΔT in K or Q in l/h and ΔT <sub>min</sub> in K	24 / 8 100 / 3	60 / 6 100 / 3	100 / 3 100 / 3	40 / 6 100 / 3	60 / 6 100 / 3
Flow rate at 0.1 bar Pressure loss in m³/h	0.5	1.0	1.6	1.0	1.0
Pressure loss at Qn in bar	0.16	0.22	0.24	0.1	0.22
Kvs-value (Flow rate value at 1 bar Pressure loss in m³/h)	1.50	3.15	5.10	3.15	3.15
Connection thread for measuring cartridge (surface mounted)	M 60 x 2			M 77 X 1.5	
Permissible working pressure in bar	16				
Length of connecting cable for split meter	ca. 0.3 m				
Permissible ambient temperature	5 ... 55 °C				
Enclosure Class	IP 54				



## PRESSURE LOSS CURVES



EAS-Installation kit	110 mm length	3/4" external thread / 15 mm solder
	110 mm length	1" external thread / 18 mm solder
	130 mm length	1" external thread / 22 mm solder
	130 mm length	28 mm solder

## ORDER NUMBERS FOR STANDARD VARIANTS

Installation in return feed (or in cold pipe run)  
 Temperature probe cable length 1.5 m Physical heat measuring unit output in MWh

Meter unit designation	Nominal size	Order Ref. No.	Variant code
PolluCom C Compact Meter	Qp 0.6	88516961	350010000000
	Qp 1.5	88516962	350020000000
	Qp 2.5	88516963	350030000000
PolluCom C Split Meter	Qp 0.6	88516964	350012000000
	Qp 1.5	88516965	350022000000
	Qp 2.5	88516966	350032000000
PolluCom C/S RA	Qp 1	88516803	3500DA1B0000
	Qp 1.5	88516805	3500BA1B0000

You can find the complete variant configurator on the next page. By using this you can define other possible variants which are not listed in this table

## EAS INSTALLATION KITS FOR POLLUCOM C ORIGINAL

Complete with single pipe connection piece, gasket, overflow cap and submersible housing for feed probe.

Designation	Length	Connection	Order Ref. No.
EAS installation kit for PolluCom C	110 mm	3/4" external   thread / 15 mm solder	68504265
EAS installation kit for PolluCom C	110 mm	1" external   thread / 18 mm solder	68504266
EAS installation kit for PolluCom C	130 mm	1" external   thread / 22 mm solder	68504267
EAS installation kit for PolluCom C	130 mm	28 mm solder	68504268



## INSTRUCTIONS FOR ORDERING

The order ref code is a 12-digit alpha-numeric figure. Codes for the required variants are formed by entering the feature codes in the empty boxes. The following table names all selectable features and their codes. Boxes 5 – 10 must be filled in to suit the particular feature; all the others are already filled in.

The standard variants with their Material No. are listed on Page 3.

These are already configured and can be ordered directly with their Material No.

Feature	Feature value	Code	1	2	3	4	5	6	7	8	9	10	11	12
Order Ref. Code ▶			3	5	0	0							0	0
Meter type	PolluCom C original PolluCom C/S RA	3500												
Nominal size	QN 0.6	A												
	QN 1.5	B												
	QN 2.5	C												
	QN 1	D												
	QN 1.5	B												
Version	Compact meter unit / Installation in return line	0												
	Compact meter unit / Installation in feed line	1												
	Split meter unit / Installation in return line	2												
	Split meter unit / Installation in feed line	3												
	Split unit / Installation in return line	A												
	Split unit / Installation in feed line	B												
Return line sensor	Fitted	0												
	Loose (symmetrical)	1												
Sensor cable length / diameter	1.5 m / 5.2 mm	0												
	1.5 m / 6 mm	B												
Physical heat measuring unit output	MWh	MWh	0											
	GJ	GJ	1											
Communication module	No module	No module	0											
	with M-BUS module	with M-BUS module	1											
	with Mini BUS module	with Mini BUS module	2											
	With remote reader module (only for split version)	with remote reader module (only for split version)	3											
nicht belegt			0											
nicht belegt			0											
Example: PolluCom original; QN 1.5; compact unit / installation in feed line, return line sensor fitted, cable length 1.5 m / sensor diameter 5.2 mm, GJ physical unit														
Order Ref. No.			3	5	0	0	B	0	0	1	1	0	0	0