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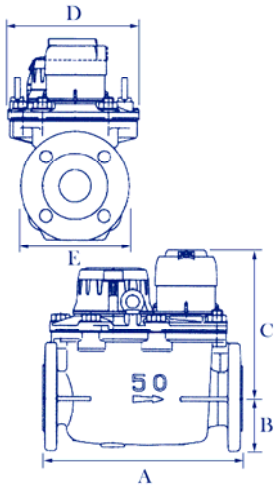
Data Sheet
01.07a
08/08



KENT (ELSTER) WATER METERS

C4000

COMBINATION COLD WATER METER

Part No. C4000

CAST IRON BODY (EPOXY COATED) WITH FLANGED CONNECTIONS

The Kent C4000 is designed for bulk flow applications where wide variations in flow occur. At high or medium flow rates, the primary Woltmann type metering chamber provides metering to Class B approval. At lower flow rates the secondary volumetric meter performs to Class D. The “in-line” design of the C4000 facilitates a short overall length with significantly reduced width compared to conventional by-pass meters.

The C4000 meter is available with a choice of pulse output options for a wide variety of applications including revenue billing, automatic meter reading, data logging and process control applications. If required, two pulse can simultaneously provide data for both long term logging and specific fine analysis, enabling individual measurements to be taken without interrupting ongoing data capture.

SIZE	A	B	C	D	E
DN50	300	80	225	205	166
DN65	300	86	225	205	186
DN80	350	104	245	250	201
DN100	350	115	252	280	228

Features & Benefits

- Class B specifications high and medium flow & Class D at low flow.
- High turndown ratio.
- Compact, in-line construction.
- Pulsed output option.

Pressure & Temperature

Pressure range:-

Up to 16 bar.

Temperature Range:-

Up to 50°C.

SPECIFICATIONS	DN	50	80	100
MAX OVERLOAD FLOW RATE ±2%	m³/h	50	200	250
MAX CONTINUOUS FLOW RATE ±2%	m³/h	25	120	180
MIN CONTINUOUS FLOW RATE ±2%	l/h	22.5	22.5	22.5
MIN FLOW RATE ±5%	l/h	15	15	15
CHANGEOVER VALVE OPENING FLOW	m³/h	1.8	2.2	2.4
CHANGEOVER VALVE CLOSING FLOW	m³/h	1.2	1.2	1.4

See Data Sheet 01.07b for flow specifications and pulse unit data

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Data Sheet
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KENT (ELSTER) WATER METERS

C4000

PULSE DATA

PR6 & PR7 SELF POWERED INDUCTIVE PULSE TRANSMIITERS (SOLD SEPERATELY)

The C4000 uses inductive registers to deliver enhanced communications performance and tamper-proof security. The C4000 is compatible with the Emeris PR6 & PR7 inductive pulse transmitter with two outputs, which offers both high and low speed bi-directional pulse capabilities as standard. The PR6 & PR7 are fully compatible with other common ancillary devices including data loggers and AMR systems.

Understanding The Outputs

PR6 & PR7 pulsers have outputs designed for every need. Each pulser has both primary and secondary outputs.

The primary output has two wires: one carries pulses when the meter is operating in both forward and reverse directions; the other is a directional flag. This is suitable for use with bi-directional counters, Emeris TRC600 radios, Elster's T210 Scancounter (in bi-directional mode) and with data loggers.

The secondary output also has two wires: one carries a pulse stream that compensates for any reverse flow; the other indicates compensation is in process. Use it with Elster's T210 Scancounter (in uni-directional mode) and with data loggers and TRC600 radios where backflow monitoring is not required.

The C4000 requires a PR6 for the V220 By-pass meter and a PR7 for the Woltmann Bulk meter.

PR6 1:1 (To Suit V220 By-Pass Meter)	DN	50	65	80	100
Primary Output	litre/pulse	1/1	1/1	1/1	1/1
Secondary Output	litre/pulse	1/1	1/1	1/1	/11

PR7 10:10 Low Speed (To Suit Bulk Meter)	DN	50	65	80	100
Primary Output	litre/pulse	10/1	10/1	10/1	10/1
Secondary Output	litre/pulse	10/1	10/1	10/1	10/1

PR7 1:10 High Speed (To Suit Bulk Meter)	DN	50	65	80	100
Primary Output*	litre/pulse	1/1	1/1	1/1	1/1
Secondary Output	litre/pulse	10/1	10/1	10/1	10/1

* Should only be used with data loggers which are capable of registering 5ms pulse.

PR6 & PR7 SELF POWERED PULSE TRANSMITTER WIRING TABLE

Yellow	White	Red	Green	Brown	Black
All Pulses	Directional Flag	Compensated Pulses	Compensation Flag	Tamper	Common

Externally powered versions are also available, contact sales for further details.

PR7 is an open collector pulse transmitter suitable for data logging, AMR and telemetry equipment.
Check with your equipment supplier for compatibility.