

Honeywell
THE POWER OF **CONNECTED**

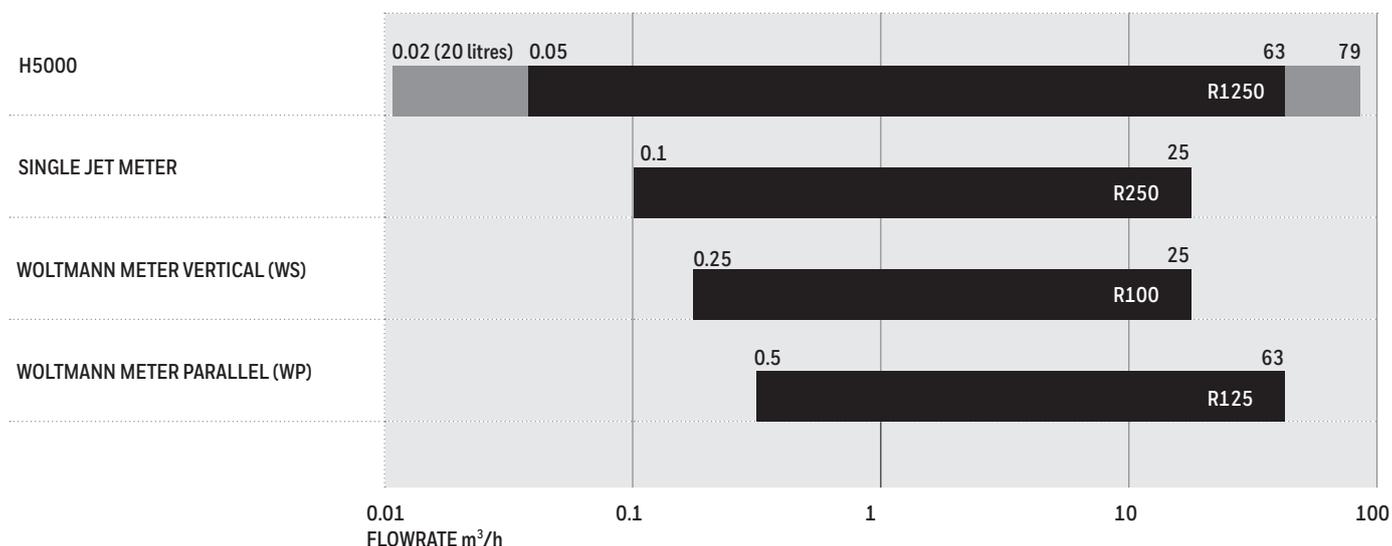
Water Metering

**THE WORLD'S MOST ACCURATE
COMMERCIAL HYBRID METER**

H5000: The World's Most Accurate Commercial Hybrid Meter

The H5000's true hybrid design has the widest measuring range of any water metering technology with a single measuring element, with a low flow performance matching that of many combination meters. With a dynamic range of up to R2000 it is the world's most accurate commercial hybrid water meter. Sizes DN50 to DN80 have a starting flow of 20 litres per hour - barely a trickle.

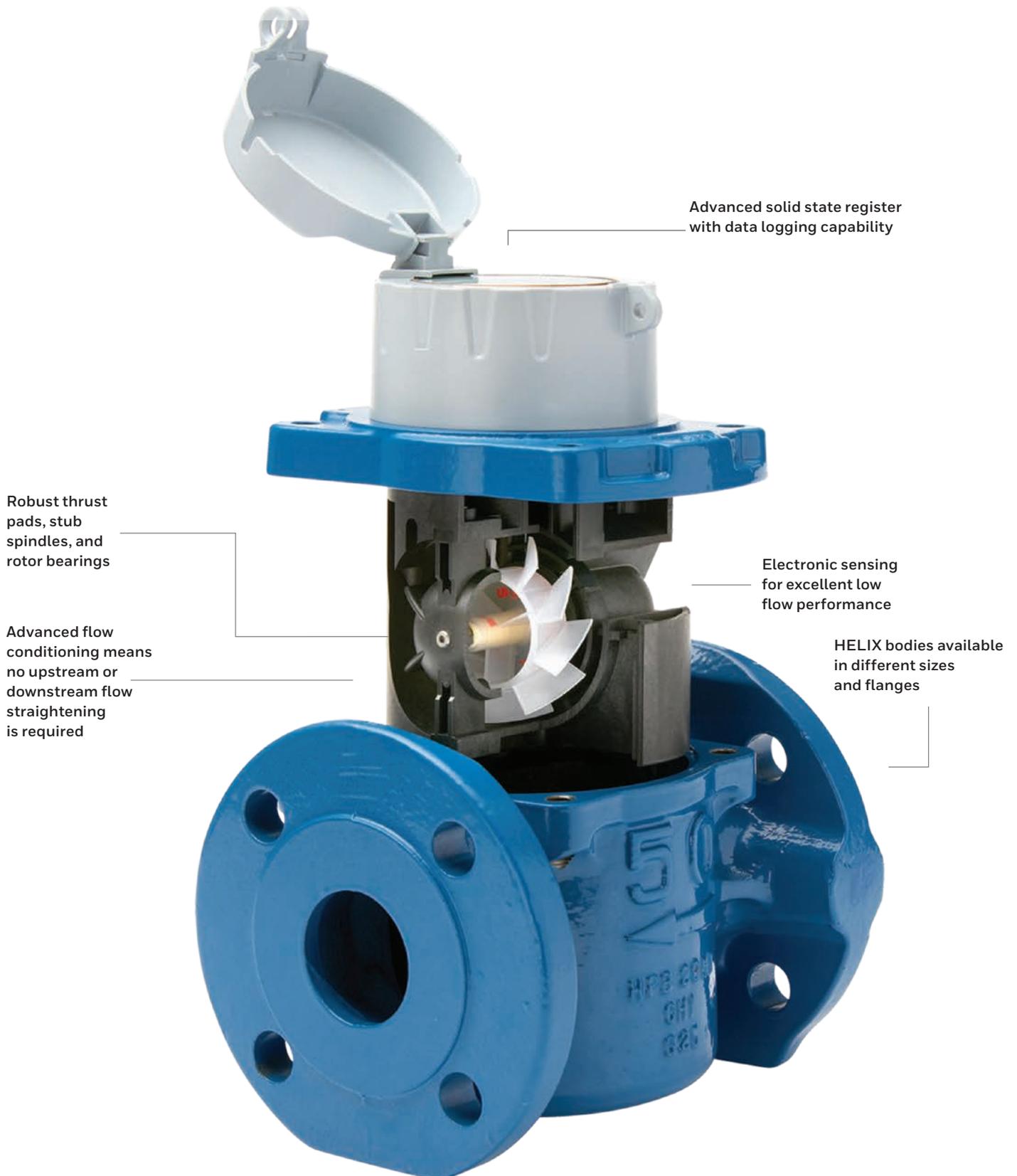
Unlike other meters with low starting flow, the H5000 also has excellent high flow performance, making it the most versatile bulk water meter available today.



An Installed Base of >500,000 Helix Meters

H5000 uses the same body as the well-established H4000. This means that any H4000 meter from size DN40 to DN125 in the field can be upgraded to a H5000 hybrid meter without having to replace the body or affecting the approval of the meter.

This is called the “HELIX” system, referenced to the traditional name for Honeywell bulk water meters. Since the mid ‘90s when the H4000 was first introduced, more than 500,000 HELIX meters have been installed worldwide.



The Power of Connected

The H5000 is pre-equipped with dual pulse output and can be supplied with additional wired M-Bus output. Further solutions are available including eLog and wireless options, as well as an IrDA optical port.



Two field programmable pulse outputs as standard



Additionally M-Bus, Localbus or UNE82326 wired output

T210 Scan counter remote display



eLog data logger and GSM/GPRS module



TRC600 Wavenis radio module



Any other pulse counting device

The Key to Success

Honeywell's H5000 true hybrid bulk water meter is the world's most accurate commercial hybrid water meter. We call it 'true hybrid' because the H5000 is the only bulk water meter with an electronic register and an electronic sensor which detects the rotor's revolutions.

The rotor is the only moving part of the whole meter. Rotor rotation is detected using inductive technology. This contact-free sensing means there is no drag on the rotor from gearing, leading to matchless flow performance. The rotor has the same specific weight as water and is mounted on super smooth and extremely hard sapphire bearings and tungsten carbide spindles. Honeywell's unique hydrodynamic thrust relief ensures the rotor axis moves upstream as flow increases, improving sensitivity, durability and longevity even at highest flow rates. Countless engineering hours were invested in the shape of its blades and during production every single rotor is balanced. The result of this unique design is an accuracy performance of up to R2000.

With H5000 there is no compromise on sampling rate. Unlike many static meters, often with long measuring intervals of several seconds to save battery life, the H5000 continuously measures the flow. The H5000 has a nominal battery lifetime of 15 years*.

Honeywell H5000 true hybrid bulk water meter - best in class accuracy performance by combining the benefits of modern electronics with proven bulk water meter heritage.

*Actual battery life depends on ambient temperature and flow profile.



Accuracy

Design

Heritage

Performance

METER SIZE (mm)	FLOW	UNITS	40	50	65	80 (low flow)	80 (standard)	100	125	150
Overload Flow Rate	Q ₄	m ³ /h	50	79	79	79	200	200	200	200
Permanent Flow Rate	Q ₃	m ³ /h	40	63	63	63	160	160	160	160
Transitional Flow Rate	Q ₂	m ³ /h	0.08	0.08	0.08	0.08	0.2	0.2	0.2	0.2
Minimum Flow Rate	Q ₁	m ³ /h	0.05	0.05	0.05	0.05	0.13	0.13	0.13	0.13
Starting Flow	Q _s	m ³ /h	0.02	0.02	0.02	0.02	0.05	0.05	0.05	0.05
Turndown Ratio R	Q ₃ /Q ₁	R value	800	1250	1250	1250	1250	1250	1250	1250

Design

Meter type: Honeywell HELIX type true Hybrid bulk water meter
DN40...150

Housing: made of powder coated cast iron with body lengths according to ISO short (WP), ISO long, DIN (WS) or Kent

Flanges: to EN1092-2 PN16 or PN10, ANSI class
125/150, DIN, Kent, slotted or undrilled

Specifications

Maximum working pressure MAP: 16 bar

Temperature class: T50 – 0.1...50°C water temperature

Ambient temperature: -25...55°C

Environmental class: E1 / M1

Power supply: battery with 15 years nominal lifetime

Protection class: IP68 fully submersible

Installation position: any, including upside down

Calming legs: none required (U0/D0)

Electronic register

Volume indication range: 9,999,999.9999 m³

Flow indication range: 9,999.9 m³/h

Other indication: flow direction, battery level, errors

Connectivity

Standard outputs: field programmable dual pulse out

Additional optional outputs: M-Bus, Localbus,
Encoded (K-frame), UNE

Cable length: 3 metres



HELIX

For more information

www.elstermetering.com

Elster Water Metering Ltd

130 Camford Way
Sundon Park, Luton
Bedfordshire, LU3 3AN
United Kingdom
T +44 1582 846400
F +44 1582 564728
water.metering@elster.com

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