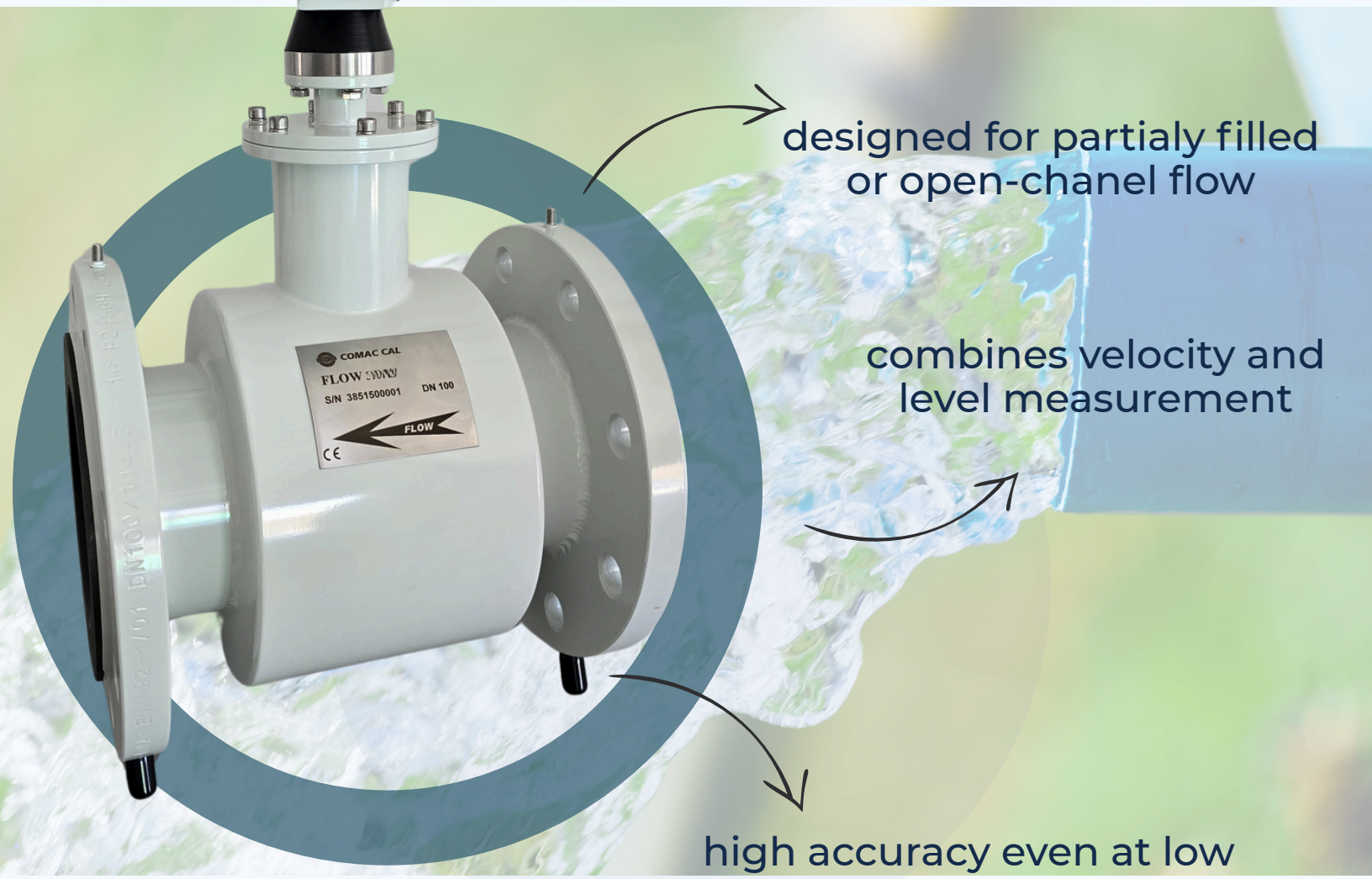
FLOW 55

“Because real flow

doesn’t wait for full pipes”

Combination of Electromagnetic Flow Meter and Ultrasonic Level Measurement



designed for partialy filled or open-chanel flow

combines velocity and level measurement

high accuracy even at low flow rates

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LET'S GROW TOGETHER

TECHNICAL DATA

Parameter	Specification
Measuring Principle	Electromagnetic in combination with ultrasonic level meter
Application	Open channels, gravity-fed systems, partially filled pipelines, grey waters, rain waters
Measuring Medium	Conductive liquids (e.g., wastewater, surface water, treated water)
Nominal Sizes (DN)	DN80 to DN400
Pipe Pressure Rating	No pressure (gravity flow) or PN10 if pipe is full
Liner Material	Hard rubber
Electrode Material	Stainless steel
Accuracy	±1–2% of actual flow (depends on flow profile and level detection)
Power Supply	24 V DC or 230 V AC
Output Signals	4–20 mA, pulse, Modbus RTU (RS485), IoT
Ingress Protection	IP68 for sensor, IP65–IP68 for transmitter
Ambient Temperature	max to +55 °C
Process Temperature	0°C to +70°C
Installation	In open channel, waste line, rainwater lines – no pressure systems
Level Detection	Integrated ultrasonic sensor
Display	Local display with totalizer, instantaneous flow, level info, status info

KEY FEATURES

- designed for partialy filled or open-chanel flow
- combines velocity and level measurement
- hight accuracy even at low flow rates
- suitable for non-pressurised and low pressure systems
- no moving parts - minimal maintenance
- customised for various pipe diameters
- suitable for wastewater, stormwater, irrigation and industrial water systems

FLOW RANGE

	Flow (m^3/h)		Flow Area (cm^2)		Velocity (m/s)	
DN	Pipe Fulness		Pipe Fulness		V min *	V max**
mm	10%	70%	10%	70%	m/s	m/s
80	1	25	4,7	35,3	0,46	1,95
100	2	45	8,1	55	0,55	2,3
150	5	132	18,3	124	0,72	3
200	10	290	32,4	220	0,88	3,6
300	30	840	73	495	1,15	4,7
400	59	1820	121	883	1,35	5,7
500	118	3250	202	1365	1,61	6,6
600	171	5360	270	1990	1,76	7,5

vmin* - for a minimum pipe filling of 10% and an installation slope of 1%.

vmax* - for a pipe filling of at least 70% and an installation slope of 4%

level sensor