

# Flow measurement in mobile applications

The SU Puresonic Mobile ultrasonic sensor

- Accurate flow measurement of water-based media, glycol and oil
- Displayless design enables use at high media temperatures
- Component-free stainless steel measuring pipe offers high media resistance and permanent ingress resistance
- Conclusions about the signal quality possible on the basis of the signal strength provided





## ifm - close to you!

Process connection	Measuring range		Order no. [l/min] + [gpm]
	[l/min]	[gpm]	Water, glycol, oil
G1⁄2 (DN15)	0.565	0.1317.17	SU6050
G¾ (DN20)	0.575	0.1319.81	SU7050
G1 (DN25)	1240	0.2563.4	SU8050
G1¼ (DN32)	1275	0.2572.64	SU9050
G2 (DN50)	51000	1.32264.18	SU2050
1⁄2 NPT	0.565	0.1317.17	SU6651
34 NPT	0.575	0.1319.81	SU7651
1 NPT	1240	0.2563.4	SU8651
2 NPT	51000	1.32264.18	SU2651

#### **Ensuring process quality for mobile machines**

The SU Puresonic Mobile ultrasonic sensor is characterised by its displayless design and high temperature resistance. It is ideal for mobile applications and processes with permanent media temperatures of up to 120  $^{\circ}$ C.

Examples include temperature control processes, fertiliser machines in agricultural technology and concrete mixers. The sensor reliably detects the volumetric flow rates of a wide range of water-based media, including pesticides, glycol mixtures and oils.

#### **Robust measuring pipe without structures**

The measuring pipe of the SU Puresonic Mobile is made of stainless steel and is free of measuring elements, seals and moving parts. This means that faults due to damage, leaks or blockages are excluded from the outset, as are design-related pressure drops.

Technical data				
Operating voltage	[V DC]	832		
Pressure rating	[bar]	<100		
Output functions		IO-Link, analogue output 420 mA, pulse output, switching output, diagnostic output		
Flow Accuracy (in the measuring range) SU2, SU8, SU9 SU6, SU7 Repeatability Minimum conductivity [µS]		±(1.0 % MW + 0.5 % MEW) ±(2.0 % MW + 0.5 % MEW) ±0.2 % MEW from 0		
<b>Temperature</b> Measuring range Accuracy	[°C] [K]	-40120 ±2.5		
Protection rating		IP67, IP69K		

MW = Measuring range value MEW = Measuring range end value

### **BEST FRIENDS**



**Graphic display** Programmable HMI for the control of mobile machines



TU temperature transmitter Robust and accurate, ideal for mobile machines



Pressure transmitter PL15 Compact design for mobile and industrial applications



For further technical details, please visit: ifm.com/fs/SU6050