



# Energy saving made easy

Precise compressed air measurement for effective energy management

- The basis for a comprehensive energy management system according to ISO 50001 or EMAS
- Improvement of energy efficiency via leakage monitoring
- Pressure monitoring thanks to the integrated pressure sensor
- Different process values being indicated simultaneously removes the need for multiple instruments



**ifm** – close to you!

**“All-in-one sensor” reduces costs**

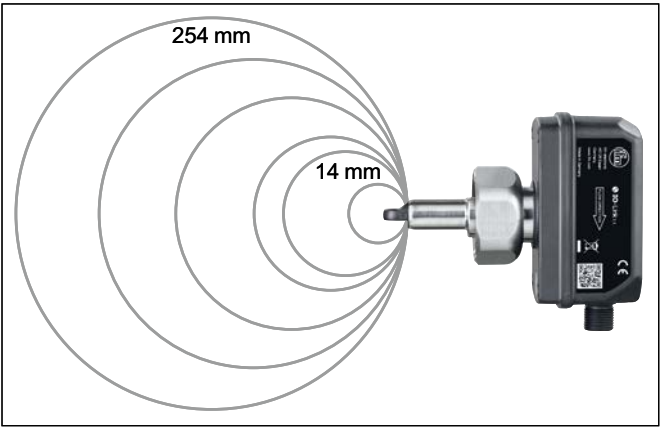
The compressed air meter is a real all-rounder. Thanks to the integrated sensors for temperature and optionally also for pressure, the user can see four process values (flow rate, pressure, temperature and total consumption) at a glance, which provide information about the energy efficiency of their system. In addition to the inline versions, screw-in versions (SD1540, SD1440) are also available for pipes from 14 to 254 mm diameter and a pressure of up to 50 bar.

**Energy efficiency thanks to leakage monitoring**

The precise flow monitoring allows for leakage detection and energy cost savings. In addition, the high repeatability of the device enables exact allocation of the costs of compressed air to the respective production line as well as optimised product cost calculation.

**Basis for seamless energy management**

Following the EU directive on energy efficiency DIN EN ISO 50001, all member states have undertaken to achieve energy savings. The requirement for obtaining energy tax reductions is the implementation of an energy management system. Combining the compressed air meter with regular DAkkS calibrations provides the optimum basis for this.



The sensor outputs the consumption depending on the pipe diameter.

Measuring range [m³/h]	Medium	Process connection	Order no.
0.05...15	air	G ¼ (DN8)	<b>SD5500</b>
0.25...75	air	R ½ (DN15)	<b>SD6500</b>
0.8...225	air	R 1 (DN25)	<b>SD8500</b>
1.4...410	air	R 1 ½ (DN40)	<b>SD9500</b>
2.5...700	air	R 2 (DN50)	<b>SD2500</b>
0.3...26260	air	G 1	<b>SD1540</b>
0.3...26260	air / nitrogen	G 1	<b>SD1440</b>

Calibration certificates	Order no.
ISO calibration (6 calibration points)	<b>ZC0020</b>
DAkkS calibration (6 calibration points)	<b>ZC0075</b>

Common technical data		
<b>Flow</b>		
Accuracy	[%]	± (2.0 MV + 0.5 MEW)
Repeatability	[%]	± (0.8 MV + 0.2 MEW)
Response time	[s]	0.1
<b>Flow SD1440, SD1540</b>		
Accuracy	[%]	± (6.0 MV + 0.6 MEW)
Repeatability	[%]	± (1.5 MV)
Response time	[s]	0.1
<b>Temperature</b>		
Measuring range	[°C]	-10...60
<b>Pressure</b>		
Measuring range	[bar]	-1...16
<b>Output signal</b>		Switching output, analogue output, pulse output, IO-Link (configurable)
<b>Protection rating</b>		IP67

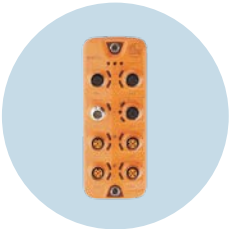
MW = value of the measuring range  
MEW = final value of the measuring range

**BEST FRIENDS**

We reserve the right to make technical alterations without prior notice. · 04.2024  
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**Pressure sensors**  
Especially for pneumatic processes



**IO-Link masters**  
Field-compatible masters with Profinet interface



**Compressed air meters**  
Precisely measures flow and consumption



For further technical details, please visit: [ifm.com/fs/SD5500](http://ifm.com/fs/SD5500)