



Top product features!

- In-line flow meter monitors compressed air systems and specialty gases (Ar, CO₂, N₂)
- Monitors air and gas consumption to identify leakage areas and improve energy efficiencies
- Optimizes air and gas usage and improves system performance
- Totalizer function monitors overall compressed air and gas usage in a plant
- Units mounted on integrated pipes ensure easy installation

efector metris compressed air and specialty gas meter



efector Metris monitors compressed air and specialty gases such as argon (Ar), carbon dioxide (CO₂), and nitrogen (N₂) to detect leakage areas and improve energy efficiencies. Compressed gases are considered one of the most expensive sources of energy consumption in a plant. By identifying leakage areas, efactor Metris can optimize compressed gas usage, improve system performance, and reduce energy costs.

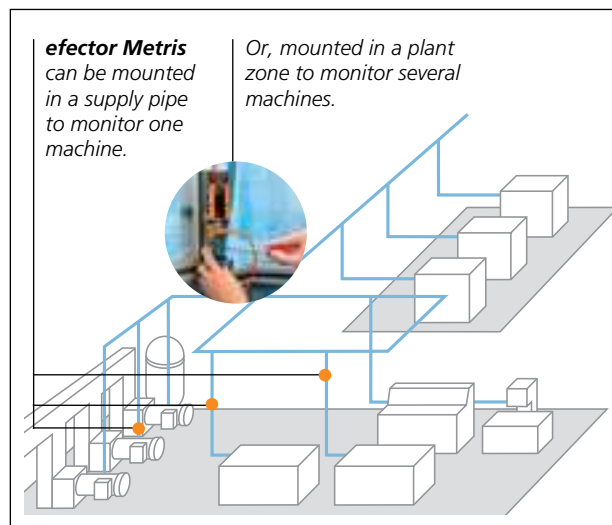
The compact sensor is fitted with an integrated pipe to ensure easy mounting and proper installation depth. The sensor's 4-digit numeric display provides air and gas consumption readings and features

microprocessor-based pushbutton setup. Three display options are available: standard cubic feet per minute, standard cubic feet per hour, and total consumed standard cubic feet. The 24 VDC unit provides switching, analog and pulse output options.

Operating principle

efector Metris incorporates two ceramic sensing elements that each contain a thermistor.

As one sensor element is heated, the second element is used as a reference. Power is then altered to the heater to ensure a constant temperature difference (CTD) between the two elements.



With its integrated pipe length, efactor Metris ensures easy installation and proper mounting configuration.

IO-Link

Position Sensors

Motion Control

Vision Sensors

Company

IO-Link

Inductive

Capacitive

Cylinder / valve position

Photoelectrics / lasers / fiber optics

Distance / Application specific

Ultrasonic

Encoders / Speed monitors

2D / 3D inspection



1 - 5



6 - 21



22 - 55



56 - 61



62 - 71



72 - 111



112 - 117



118 - 119



120 - 127



128 - 143



Product + accessory selector

| Output | Accuracy | Process Connection | Operating Range [scfm] | Operating Range [scfh] | Volumetric Flow Quantity Monitoring [scf] | Part No. | List Price (1-pc.) |
|---|--|--------------------|------------------------|------------------------|---|---------------|--------------------|
| efector Metris for compressed air | | | | | | | |
| 2 x PNP or PNP and 4-20mA or PNP and pulse output | ± (3% measured value + 0.3% of full range) | 1/2" NPT | 0...44 | 0...2650 | 0.04...4,000,000 | SD6001 | \$788.00 |
| | | 1" NPT | 0...132 | 0...7945 | 0.04...4,000,000 | SD8001 | \$822.00 |
| | | 2" NPT | 0...412 | 0...24,720 | 0.04...4,000,000 | SD2001 | \$1,094.00 |

| Output | Accuracy | Process Connection | Operating Range [Ar] | Operating Range [CO ₂] | Operating Range [N ₂] | Display Units Available | Part No. | List Price (1-pc.) |
|---|--|--------------------|----------------------|------------------------------------|-----------------------------------|-------------------------|---------------|--------------------|
| efector Metris for specialty gases (Ar, CO₂, N₂) | | | | | | | | |
| 2 x PNP or PNP and 4-20mA or PNP and pulse output | ± (6% measured value + 0.6% of full range) | 1/2" NPT | 0...69.5 scfm | 0...42.2 scfm | 0...43 scfm | scfm, scfh, scf | SD6101 | \$860.00 |

Cordsets

| Type | Description | Part No. | List Price (1-pc.) |
|------|--------------------------------|---------------|--------------------|
| | M12 Micro DC (4-pin) 2 m, PUR | EVC001 | \$11.00 |
| | M12 Micro DC (4-pin) 5 m, PUR | EVC002 | \$15.00 |
| | M12 Micro DC (4-pin) 10 m, PUR | EVC003 | \$19.00 |
| | M12 Micro DC (4-pin) 2 m, PUR | EVC004 | \$11.00 |
| | M12 Micro DC (4-pin) 5 m, PUR | EVC005 | \$15.00 |
| | M12 Micro DC (4-pin) 10 m, PUR | EVC006 | \$19.00 |

▶ Can't find the right sensor for your application, call 800-441-8246 or visit www.ifm.com/us

Technical Specs

Supply voltage: 19...30 VDC
 Maximum load current: 2 x 250 mA
 Maximum relative air humidity: 90%
 Pressure rating: 230 psi (16 bar)
 Medium temperature range: 32...140 °F (0...60 °C)
 Wetted parts: 304 stainless steel, ceramics, passivated glass, PEEK, polyester, Viton, anodized aluminum
 Protection: IP65

R&D that delivers solutions

ifm R&D engineers design products that reduce machine downtime, increase productivity and simplify installation.

- Place orders, tech support**
800-441-8246
- Visit our product catalog**
www.ifm.com/us
- Shop for products online**
Easy ordering via eShop

| Safety Technology | Process Sensors | | | | Industrial Networks | ID Systems | Machine Condition | Power Supplies | Wiring Technology | |
|-------------------|-----------------|-----------|-----------|-------------|---------------------|----------------|---------------------------|--------------------|-------------------|-------------------|
| Safety products | Pressure | Flow | Level | Temperature | AS-i network | Safety systems | RF identification systems | Diagnostic systems | Power supplies | Cordset solutions |
| | | | | | | | | | | |
| 144 - 155 | 156 - 175 | 176 - 191 | 192 - 207 | 208 - 225 | 226 - 239 | 240 - 251 | 252 - 253 | 254 - 259 | 260 - 263 | 264 - 277 |

