

Digital Flowmeter™

Monitor compressed air usage and waste!

What Is The Digital Flowmeter?

EXAIR's Digital Flowmeter is the easy way to monitor compressed air consumption and waste! The digital display shows the exact amount of compressed air being used, making it easy to identify costly leaks or inefficient air products. Many companies install the Digital Flowmeter on each major leg of their air distribution system to constantly monitor and benchmark compressed air usage.

Why The Digital Flowmeter?

The Digital Flowmeter has an LED display that directly indicates the SCFM or m³/hr volume of airflow through that pipe. Models from 1/2" to 4" iron pipe are in stock. Each Digital Flowmeter is calibrated for the pipe size to which it is mounted.

The Digital Flowmeter is designed for permanent or temporary mounting to the pipe. It requires the user to drill two small holes through the pipe using the included drill bit and locating fixture. The two flow sensing probes of the flowmeter are inserted in these holes. The unit seals to the pipe once the clamps are tightened. No cutting, welding, adjustments or calibration are ever required. If the unit needs to be removed, blocking rings are available. NEMA Type 4 (IP66) meters available. Consult the factory.



EXAIR's Digital Flowmeter family is available in many sizes from stock.



Advantages

- Easy to install - No moving parts
- Summing Remote Display and Data Logger available
- Optional RS-485 output serial communication board available
- Sensitive at low flows
- No calibration or setup required
- Includes all components for installation
- Models from 1/2" to 4" Schedule 40 iron pipe in stock
- Models are available for sizes 1/2" to 6" in iron pipe
- Models are available for sizes 3/4" to 4" in copper pipe

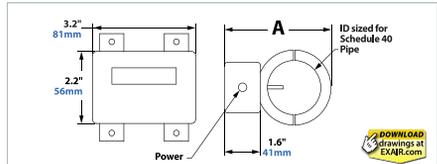


Digital Flowmeter

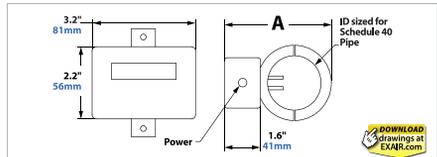
| Model # | Pipe Size | Range* |
|-------------|---------------------------|----------------------------|
| 9090 | 1/2" (Schedule 40 iron) | 1-90 SCFM |
| 9090-M3 | 1/2" (Schedule 40 iron) | 2-153 m ³ /hr |
| 9090-DAT | 1/2" (Schedule 40 iron) | 1-90 SCFM |
| 9090-M3-DAT | 1/2" (Schedule 40 iron) | 2-153 m ³ /hr |
| 9091 | 3/4" (Schedule 40 iron) | 1-120 SCFM |
| 9091-M3 | 3/4" (Schedule 40 iron) | 2-204 m ³ /hr |
| 9091-DAT | 3/4" (Schedule 40 iron) | 1-120 SCFM |
| 9091-M3-DAT | 3/4" (Schedule 40 iron) | 2-204 m ³ /hr |
| 9092 | 1" (Schedule 40 iron) | 1-160 SCFM |
| 9092-M3 | 1" (Schedule 40 iron) | 2-272 m ³ /hr |
| 9092-DAT | 1" (Schedule 40 iron) | 1-160 SCFM |
| 9092-M3-DAT | 1" (Schedule 40 iron) | 2-272 m ³ /hr |
| 9094 | 1-1/2" (Schedule 40 iron) | 2-200 SCFM |
| 9094-M3 | 1-1/2" (Schedule 40 iron) | 3-340 m ³ /hr |
| 9094-DAT | 1-1/2" (Schedule 40 iron) | 2-200 SCFM |
| 9094-M3-DAT | 1-1/2" (Schedule 40 iron) | 3-340 m ³ /hr |
| 9095 | 2" (Schedule 40 iron) | 4-400 SCFM |
| 9095-M3 | 2" (Schedule 40 iron) | 7-680 m ³ /hr |
| 9095-DAT | 2" (Schedule 40 iron) | 4-400 SCFM |
| 9095-M3-DAT | 2" (Schedule 40 iron) | 7-680 m ³ /hr |
| 9096 | 2-1/2" (Schedule 40 iron) | 5-500 SCFM |
| 9096-M3 | 2-1/2" (Schedule 40 iron) | 8-850 m ³ /hr |
| 9096-DAT | 2-1/2" (Schedule 40 iron) | 5-500 SCFM |
| 9096-M3-DAT | 2-1/2" (Schedule 40 iron) | 8-850 m ³ /hr |
| 9097 | 3" (Schedule 40 iron) | 12-1200 SCFM |
| 9097-M3 | 3" (Schedule 40 iron) | 20-2039 m ³ /hr |
| 9097-DAT | 3" (Schedule 40 iron) | 12-1200 SCFM |
| 9097-M3-DAT | 3" (Schedule 40 iron) | 20-2039 m ³ /hr |
| 9098 | 4" (Schedule 40 iron) | 20-2000 SCFM |
| 9098-M3 | 4" (Schedule 40 iron) | 34-3398 m ³ /hr |
| 9098-DAT | 4" (Schedule 40 iron) | 20-2000 SCFM |
| 9098-M3-DAT | 4" (Schedule 40 iron) | 34-3398 m ³ /hr |

Note: DAT models have the Data Logger installed.
 *Calibrated range. Usable range higher. Please consult factory.

Dimensions*



| Series | Pipe Size | A | |
|--------|-----------|------|-----|
| | | in | mm |
| 9090 | 1/2" | 3.00 | 76 |
| 9091 | 3/4" | 3.25 | 83 |
| 9092 | 1" | 3.63 | 92 |
| 9094 | 1-1/2" | 4.38 | 111 |
| 9095 | 2" | 4.88 | 124 |



| Series | Pipe Size | A | |
|--------|-----------|------|-----|
| | | in | mm |
| 9096 | 2-1/2" | 5.75 | 146 |
| 9097 | 3" | 6.38 | 162 |
| 9098 | 4" | 7.38 | 187 |

*If dimensions are critical for mounting, please consult the factory.



Each Digital Flowmeter includes a 24 VDC power supply with plug adapters, 3/16" drill bit and hole locating fixture.

Specifications for Digital Flowmeter

| | |
|--------------------|---|
| Accuracy | 5% of reading, plus 1% of full scale for air temperatures between 40° to 120°F (4° to 49°C) |
| Operating Pressure | 30 to 140 PSIG for best accuracy - 200 PSIG max. |
| Input Power | 250 mA at 24 VDC/ Power Adapter included 100-240VAC |
| Wetted Materials | Stainless steel, gold, thermal epoxy and Viton (seal) |
| Ring Material | Aluminum |
| Display | Four-digit LED display |
| Compliance | CE and RoHS |

Note: For use with compressed air and nitrogen only.



Digital Flowmeter Accessories

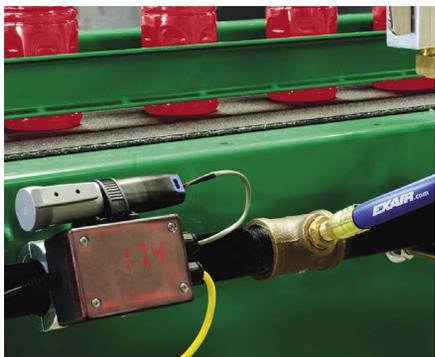


What is the Summing Remote Display?

EXAIR's Summing Remote Display for the Digital Flowmeter makes it easy to monitor compressed air consumption from a convenient location. With the push of a button, the display cycles to show the current air consumption, usage for the previous 24 hours, and total cumulative usage. Regular monitoring of the air usage of a machine, process or department makes it possible to save thousands of dollars per year in compressed air waste by identifying the costly leaks or inefficient air products.

The Digital Flowmeter (sold separately) has a four digit LED display that directly indicates the SCFM (standard cubic feet per minute) or m³/hr (cubic meters per hour) of airflow through the pipe it is mounted upon. The Summing Remote Display shows that flow measurement, the daily and cumulative usage and is frequently used when the Digital Flowmeter is in an obscure, hard to read location. The accuracy of the displayed measurement is within 5% of the reading when the air temperature is 40-120°F (4-49°C) and air pressure is between 30-140 PSIG (2-10 BAR). No adjustments or calibration are ever required. The Summing Remote Display is CE and RoHS compliant.

It is prewired with 50' (15.2m) of cable and is powered by the Digital Flowmeter.



Summing Remote Display

| Model # | Description |
|----------------|---|
| 9150 | LED Readout displays SCFM |
| 9150-M3 | LED Readout displays m ³ /hr |

Block-Off Rings

| Model # | Pipe Size |
|---------------|--|
| 901327 | Block-Off Rings for 9090, 9090-M3 or 9090Z |
| 901328 | Block-Off Rings for 9091, 9091-M3 or 9091Z |
| 901329 | Block-Off Rings for 9092, 9092-M3 or 9092Z |
| 901331 | Block-Off Rings for 9094, 9094-M3 or 9094Z |
| 901332 | Block-Off Rings for 9095, 9095-M3 or 9095Z |
| 901333 | Block-Off Rings for 9096, 9096-M3 or 9096Z |
| 901334 | Block-Off Rings for 9097, 9097-M3 or 9097Z |
| 901335 | Block-Off Rings for 9098, 9097-M3 or 9097Z |

What is the USB Data Logger?

EXAIR's award-winning Model 9147 USB Data Logger connects directly to your Digital Flowmeter and is simple to use. Download the software to configure the Data Logger to record your flow rate from once a second (about nine hours of data) up to once every 12 hours (over two years!).

When the Data Logger is removed from the Digital Flowmeter and plugged into a computer, the data can be viewed in the software or exported directly into Microsoft Excel®. The Data Logger is available pre-installed on the Digital Flowmeter.



USB Data Logger

| Model # | Description |
|-------------|---------------------------------------|
| 9147 | USB Data Logger for Digital Flowmeter |



EXAIR's Summing Remote Display for the Digital Flowmeter.