

# All about



Besides CO2 Flowmeters we also manufacture and supply:

- Automatic CO2 Production Plants
- CO2 Stack Gas Recovery Plants
- Fermentation CO2 Recovery Systems
- CO2 Gas Recovery Systems for Dry Ice Machines
- Dry Ice Slices/Block/Pelletizer Machines
- Cryogenic and CO2 Static and Transportable Tanks
- Dry Ice Blasting Systems **ASCOJET**
- CO2 Pumps and Cylinder Filling Systems
- CO2 Atmospheric Vaporisers
- CO2 Detectors
- Low to Low Pressure CO2 Transfer Pumps
- CO2 Testing Equipment (Dew Point / Purity / Carbonation)
- Ancillary CO2 Equipment

## ASCO CO<sub>2</sub> FLOWMETER



The complete pre-calibrated **ASCO** CO<sub>2</sub>-Flowmeter (stainless steel) consists of:

Mass flow sensor (fully calibrated) assembled to process pipe with flanges and counter flanges, flow computer with digital display of current CO<sub>2</sub> flow rate in kg/hr as well as totalizer and integrated keyboard (all prewired), power unit 115 - 230 V, 50/60 Hz

Features

- easy to install
- very accurate (0.1 %)
- single point measurement
- no pressure and temperature compensation required
- no moving parts
- direct mass flow reading
- volt free contact alarm and fault status output
- self-testing electronics

Contact us for further details or offer:

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### Accurate readings!

## ASCO CO<sub>2</sub> FLOWMETER



With the new generation of mass flowmeters type M1 and M2 **ASCO** introduces new features - pushing development a giant step ahead for flow measurement working independently of pressure and temperature. Stressing safety, reliability and quality we have utilized advanced technology to bring operational performance to perfection.

The **ASCO** Mass CO<sub>2</sub> Flowmeter has been developed to accurately measure CO<sub>2</sub> gas flow in closed pipes.

The power unit, which supplies 230 V, operates a microprocessor controlled flow computer and one sensor. The controller can be installed up to 300 metres away from the sensor using a standard, 4 core, shielded cable.

The **ASCO** CO<sub>2</sub> Flowmeter is a complete system which is supplied fully calibrated and wired and therefore very easy to install.

### Easy to install!

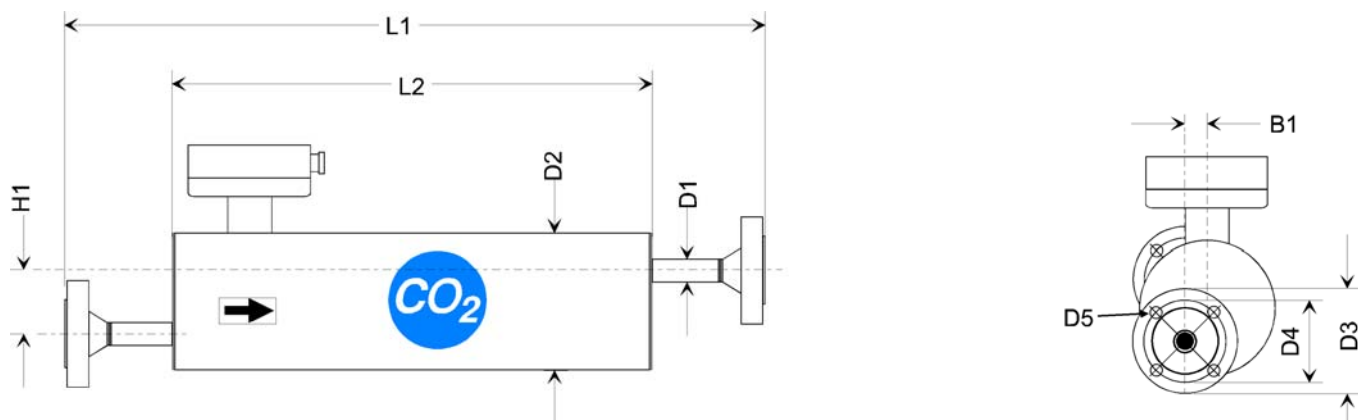
#### Typical CO<sub>2</sub> measurement applications:

- in soft drink factories
- in breweries
- wherever CO<sub>2</sub> consumption must be monitored



- **Improved step response** - Due to our new dedicated mass flow chip with the latest ASIC technology.
- **Better noise immunity** - The flowmeters are practically immune to external noise effects - an essential prerequisite for increasing the dynamic range.
- **Improved dynamic measurement range** - Flexibility is greatly enhanced, since the meter can be located at any point in the installation.

Accurate CO<sub>2</sub> measurement can help to find CO<sub>2</sub> leaks and to achieve optimum CO<sub>2</sub> yields. Practical tests have shown that by using an **ASCO** CO<sub>2</sub> Flowmeter, CO<sub>2</sub> savings of up to 30% can be achieved.



Sensor size	Connections			L1	L2	L3	H1	B1	D1	D2	D3	D4	D5
	Type	Pressure rating	Size										
DI 15	Flange DIN 2635	PN 40	DN 15	620	444	75	44	20	21.3	129	95	65	14
DI 25	Flange DIN 2635	PN 40	DN 25	934	700	74.5	126	25	33.7	219	115	85	14

Technical data	Type M1	Type M2
Measuring range:	0 - 1200 kg	0 - 3500 kg
Nominal pipe diameter:	15 mm	25 mm
Connections (flanges DIN 2635, PN40):	DI 15 (1/2")	DI 25 (1")
Max. working pressure:	40 bar (tested to 60 bar)	40 bar (tested to 60 bar)
Medium temperature:	-50 to +180 °C	-50 to +180 °C
Permissible ambient temperature:	-20 to +55 °C	-20 to +55 °C
Accuracy:	0.1 % of rate (above 10 kg/hr)	0.1 % of rate (above 10 kg/hr)
Repeatability:	± 0.5 % of rate	± 0.5 % of rate
Materials of construction:	316 stainless steel (wetted parts) 1.4435	316 stainless steel (wetted parts) 1.4435
Weight approx: - Sensor	12 kg	39 kg
- Controller	1.65 kg	1.65 kg
Dimensions: - Sensor (w x d x h)	620 x 132 x 206 mm	934 x 192 x 296 mm
- Controller (w x d x h)	155 x 170 x 270 mm	155 x 170 x 270 mm

#### Guarantee

The **ASCO** CO<sub>2</sub> Flowmeter is guaranteed for one year against faulty material or workmanship.

#### Modification

**ASCO** reserves the right to modify these specifications without notice.