

MERCER CLEARLINE 2 Air Gauge Units

Feature both a clear circular scale and large pointer.

- Single measuring channel and bayonet connector for mounting an air plug or air ring.
- Magnification and zero regulators.
- Dial with a 240 mm scale length.
- Double filtration dealing with liquids and solid contaminants along with a check valve.
- Integrated pressure regulator and pressure gauge.



Important

When asking for a quotation or writing down your order, it is important to state your requirements according to the information on page O-6).



DIN 2271

Air gauge units with bayonet connector for one sensor

Circular scale with large pointer.
Response time ≈ 3 s or ≈ 7 s for miniature air plugs or air rings

$\approx 4,8$ mm (metric scale) or ≈ 12 mm (inch scale)

All accuracy related data given hereafter refer to the complete measuring system, i.e. with air plug or air ring included

1 scale division. (provided magnification was previously set)

0,5 scale division

0,5 scale division

Air mains connection: pipe thread G $\frac{1}{4}$ as per ISO 228-1.
Air supply (before pressure setting): $\geq 4,1$ bar.
Air supply (after pressure setting): 3 bar.
Air consumption when escaping from the gauge head: $\leq 1,0$ m 3 /h

200x280x300 mm (W x H x D along with filters)

6,7 kg (filters included)

5°C to 45°C

Shipping packaging

Identification number

MERCER CLEARLINE 2



Executions with metric scale

S95010000	A100-23	± 25	1	25 \div 0 \div 25
S95010001	A100-24	± 50	2	50 \div 0 \div 50

Executions with metric/inch scale

S95010010	A100-62	± 25	1	25 \div 0 \div 25	± 0.001	0.0001	10 \div 0 \div 10
S95010011	A100-63	± 50	2	50 \div 0 \div 50	± 0.002	0.0002	20 \div 0 \div 20

Dial Options



A100-23 - 3/A100-23



A100-62 - 3/A100-62



A100-24 - 3/A100-24



A100-63 - 3/A100-63



MERCER MULTI-WAY CLEARLINE Air Gauge Units

These units are identical to MERCER CLEARLINE 2, but with the following added features:

- 3 single channels and bayonet connectors for up to three sensors (air plugs or air rings).
- Magnification and zero regulators for each channel.
- Lever switch to change over from a channel to another.



Important
When asking for a quotation or writing down your order, it is important to state your requirements according to the information on page O-6).

MERCER MULTI-WAY CLEARLINE



µm

µm

in

in

Executions with metric scale

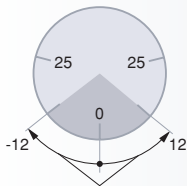
S95010002	3/A100-23	± 25	1	25 ÷ 0 ÷ 25
S95010003	3/A100-24	± 50	2	50 ÷ 0 ÷ 50

Executions with metric/inch scale

S95010012	3/A100-62	± 25	1	25 ÷ 0 ÷ 25	± 0.001	0.0001	10 ÷ 0 ÷ 10
S95010013	3/A100-63	± 50	2	50 ÷ 0 ÷ 50	± 0.002	0.0002	20 ÷ 0 ÷ 20

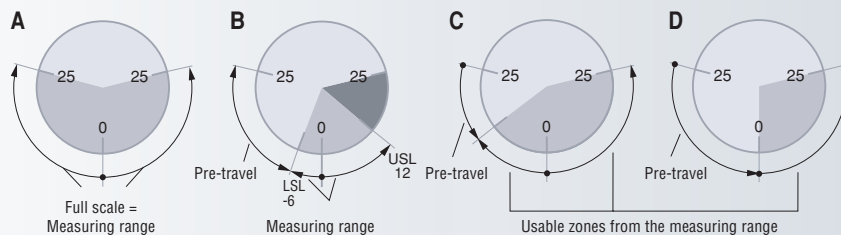
How to use the scales

CLEARLINE 2 and MULTI-WAY CLEARLINE provide different ways of use of the scales, each making allowances for the workpiece as well as the machining process. The sensors are normally made to allow the workpiece related tolerance zone to be equally displayed on half the scale on both plus and minus sides, starting from zero (see below). Four additional ways of use are also illustrated hereafter (A to D).



Measuring range

Workpiece related tolerance zone (24 µm) = Measuring range (± 12 µm).



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Use of the measuring range defined within the full scale range based on the workpiece tolerances (LSL and USL).

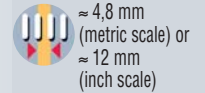
Use of the half range (Fig. C) or the entire scale (Fig. D) on the minus side for pretravel in order to allow the smaller diameters to be captured during the machining process.



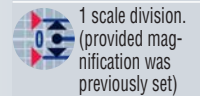
Air gauge units with bayonet connector for three sensors



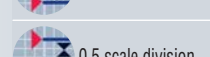
Circular scale with large pointer.
Response time ≈ 3 s or ≈ 7 s for miniature air plugs or air rings



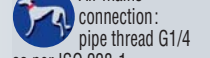
≈ 4,8 mm (metric scale) or ≈ 12 mm (inch scale)
All accuracy related data given hereafter refer to the complete measuring system, i.e. with air plug or air ring included



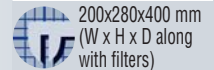
1 scale division. (provided magnification was previously set)



0,5 scale division



Air mains connection: pipe thread G1/4 as per ISO 228-1.
Air supply (before pressure setting): ≥ 4,1 bar.
Air supply (after pressure setting): 3 bar.
Air consumption when escaping from the gauge head: ≤ 1,0 m³/h



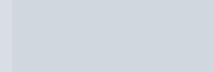
200x280x400 mm (W x H x D along with filters)



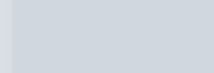
9,4 kg (filters included)



5°C to 45°C



Shipping packaging



Identification number