Home » Millimar » Millimar P2001 Series Inductive Probe Owner's Manual

Millimar P2001 Series Inductive Probe Owner's Manual

Millimar P2001 M / P2001 T / P2001 F

Inductive Probe

FEATURES

- · Compact design
- Plain bearing guide
- High linearity over the entire measuring range
- Excellent electromagnetic shielding (EMC)
- Chemical resistance data: resistant to oil, gasoline, water and aliphatics. Moderately resistant to acids, bases, solvents and ozone

TECHNICAL DATA

| Order no. | 5323040 | |
|------------------------------|---------|------------------|
| Product type | | P2001 M |
| Measuring range | mm | ± 0.5 |
| Measuring range | inch | ± .020" |
| Measuring force | N | 0.75 N +/-0.15 N |
| Increase in measuring force | N/mm | 0.1 N/mm |
| Sensitivity deviation | % | 0.3 |
| Repeatability f _w | μm | 0.15 |

| Repeatability f _w | inch | 6 μ" |
|--------------------------------------|-------|-----------|
| Hysteresis f _u | μm | 0.2 |
| Hysteresis f _u | inch | 8 μ" |
| Linearity deviation within +/-0.1 mm | μm | 0.6 |
| Linearity deviation within +/0039" | inch | 24 μ" |
| Linearity deviation within +/-0.5 mm | μm | 1.5 |
| Linearity deviation within +/020" | inch | 60 μ" |
| IP protection category: | | IP 40 |
| Cable length | m | 2.5 |
| Temperature coefficient | μm/°C | 0.15 |
| Compatibility | | Mahr VLDT |

ACCESSORIES

| Order no. | Product description | Product name | Compatibility | Product type |
|-----------|-----------------------|-----------------------------------|---------------|--------------|
| | | | | |
| 5323130 | Extension cable 2.5 m | Extension cable 2.5 m (Mahr VLDT) | Mahr VLDT | C2025 M |
| 5323140 | Extension cable 5 m | Extension cable 5 m (Mahr VLDT) | Mahr VLDT | C2050 M |
| 5323150 | Extension cable 7.5 m | Extension cable 7.5 m (Mahr VLDT) | Mahr VLDT | C2075 M |
| 5323160 | Extension cable 10 m | Extension cable 10 m (Mahr VLDT) | Mahr VLDT | C2100 M |

Millimar P2004 M / P2004 T / P2004 U / P2004 F

Inductive Probe

FFEATURES

- Models with or without compressed-air (pneumatic) lifter or vacuum retraction
- Measuring pin mounted in ball bearing guide
- High linearity over the entire measuring range
- Excellent electromagnetic shielding (EMC)
- All probes can be easily converted from axial to radial by mounting a slip-on cap (included)
- Chemical resistance data: resistant to oil, gasoline, water and aliphatics. Moderately resistant to acids, bases, solvents and ozone
- Package contains: instruction manual, cap for radial cable output, spanner for preliminary stroke setting

TECHNICAL DATA

| Order no. | 5323010 | 5323011 | 5323013 | 5323014 | | | | |
|-----------------------------|----------|------------------|----------|---------|---------|--|--|--|
| Product type | | P2004 M | P2004 T | P2004 U | P2004 F | | | |
| Measuring range | mm | | ± 2 | ! | | | | |
| Measuring range | inch | | ± .07 | 9" | | | | |
| Distance to upper stop | mmmm | | +2.2 | . 4.4 | | | | |
| Distance to upper stop | inchinch | | + .09 | .173" | | | | |
| Distance to lower stop | mmmm | | -2.2 | . 0 | | | | |
| Distance to lower stop | inchinch | | 09 | . 0" | | | | |
| Lifter / retraction | | | Standard | model | | | | |
| Measuring force | N | 0.75 N +/-0.15 N | | | | | | |
| Increase in measuring force | N/mm | 0.2 N/mm | | | | | | |
| Sensitivity deviation | % | 0.3 | | | | | | |

| Repeatability f _w | μm | 0.1 | | | | | | |
|--------------------------------------|-------|----------------------------|------|----|--|--|--|--|
| Repeatability f _w | inch | | 4 μ | 33 | | | | |
| Hysteresis f _u | μm | 0.5 | | | | | | |
| Hysteresis f _u | inch | 20 μ" | | | | | | |
| Linearity deviation within +/-0.5 mm | μm | | 0.4 | | | | | |
| Linearity deviation within +/020" | inch | 16 μ" | | | | | | |
| Linearity deviation within +/-1.0 mm | μm | 1.5 | | | | | | |
| Linearity deviation within +/039" | inch | | 60 բ | l" | | | | |
| Linearity deviation within +/-2.0 mm | μm | | 3 | | | | | |
| Linearity deviation within +/079" | inch | | 120 | μ" | | | | |
| IP protection category | | | IP 6 | 4 | | | | |
| Cable length | m | 2.5 | | | | | | |
| Temperature coefficient | μm/°C | 0.15 | | | | | | |
| Compatibility | | Mahr VLDT Tesa Marposs Fed | | | | | | |

| Order no. | g | Dimension f | а | b | С | d | е | f | h |
|-----------|----------|-------------|------|----|------|----|-----|----|----|
| | | inch | mm | mm | mm | mm | mm | mm | mm |
| 5323010 | M 2.5 | | 88.7 | 28 | 21.3 | 6 | 9.2 | 8 | 14 |
| 5323011 | M 2.5 | | 88.7 | 28 | 21.3 | 6 | 9.2 | 8 | 14 |
| 5323013 | M 2.5 | | 88.7 | 28 | 21.3 | 6 | 9.2 | 8 | 14 |
| 5323014 | 4/48 UNF | 0.375 | 88.7 | 28 | 21.3 | 6 | 9.2 | | 14 |

Millimar P2004 MA / P2004 TA / P2004 UA / P2004 FA

Inductive Probe

FEATURES

- Models with or without compressed-air (pneumatic) lifter or vacuum retraction
- Measuring pin mounted in ball bearing guide
- High linearity over the entire measuring range
- Excellent electromagnetic shielding (EMC)
- All probes can be easily converted from axial to radial by mounting a slip-on cap (included)
- Chemical resistance data: resistant to oil, gasoline, water and aliphatics. Moderately resistant to acids, bases, solvents and ozone
- Package contains: instruction manual, cap for radial cable output, spanner for preliminary stroke setting

TECHNICAL DATA

| Order no. | 5323020 | 5323021 | 5323023 | 5323024 | | |
|-----------------|---------|----------|----------|----------|----------|--|
| Product type | | P2004 MA | P2004 TA | P2004 UA | P2004 FA | |
| Measuring range | mm | ± 2 | | | | |

| Measuring range | inch | ± .079" |
|--------------------------------------|----------|------------------|
| Distance to upper stop | mmmm | +2.2 4.4 |
| Distance to upper stop | inchinch | + .09173" |
| Distance to lower stop | mmmm | -2.2 0 |
| Distance to lower stop | inchinch | 09 0" |
| Lifter / retraction | | Vacuum lifter |
| Measuring force | N | 0.75 N +/-0.15 N |
| Increase in measuring force | N/mm | 0.2 N/mm |
| Sensitivity deviation | % | 0.3 |
| Repeatability f _w | μm | 0.1 |
| Repeatability f _w | inch | 4 μ" |
| Hysteresis f _u | μm | 0.5 |
| Hysteresis f _u | inch | 20 μ" |
| Linearity deviation within +/-0.5 mm | μm | 0.4 |
| Linearity deviation within +/020" | inch | 16 μ" |
| Linearity deviation within +/-1.0 mm | μm | 1.5 |
| Linearity deviation within +/039" | inch | 60 μ" |

| Linearity deviation within +/-2.0 mm | μm | 3 | | | | | |
|--------------------------------------|-------|-----------|------|---------|--------|--|--|
| Linearity deviation within +/079" | inch | 120 μ" | | | | | |
| IP protection category | | IP 64 | | | | | |
| Cable length | m | | 2. | 5 | | | |
| Temperature coefficient | μm/°C | 0.15 | | | | | |
| Compatibility | | Mahr VLDT | Tesa | Marposs | Federa | | |

| Order no | g | Dimension f | j | k | ı | m | а | b | С | d | е | f | h | i |
|----------|-------------|-------------|--------|----|-----|------|------|----|------|----|-----|----|----|------|
| | | inch | m m | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| 5323020 | M 2.5 | | 3.6 | 9 | 8.3 | 12.5 | 88.7 | 28 | 21.3 | 6 | 9.2 | 8 | 14 | 26.5 |
| 5323021 | M 2.5 | | 3.6 | 9 | 8.3 | 12.5 | 88.7 | 28 | 21.3 | 6 | 9.2 | 8 | 14 | 26.5 |
| 5323023 | M 2.5 | | 3.6 | 9 | 8.3 | 12.5 | 88.7 | 28 | 21.3 | 6 | 9.2 | 8 | 14 | 26.5 |
| 5323024 | 4/48 UNF | 0.375 | 3.6 | 9 | 8.3 | 12.5 | 88.7 | 28 | 21.3 | 6 | 9.2 | | 14 | 26.5 |

Contents

- 1 Documents / Resources
 - 1.1 References

Documents / Resources



Millimar P2001 Series Inductive Probe [pdf] Owner's Manual

P2001 M, P2001 T, P2001 F, P2004 M, P2004 T, P2004 U, P2004 F, P2004 MA, P2004 TA, P2 004 UA, P2004 FA, P2001 Series Inductive Probe, P2001 Series, Inductive Probe, Probe

References

User Manual

Manuals+, Privacy Policy

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