



MHC - 1000, 2000, 3000 Series Sensors

- Portable Sensors for MHC - Memo Instruments
- Permanently Installed Sensors for CM Systems
- Mounting, Coating & Cables Length Options

MHC-1000 Series Sensors - For Portable Instruments

The MHC-1000 series of AE sensors are designed specifically for use with the MHC-MEMO range of On-Site (portable) Condition Monitoring instruments.

Their low power circuitry maximises instrument battery life whilst their ruggedised designs are enhanced by ergonomically designed rubber housings.

Supplied with a standard 1.2 metre cable length, they are suitable for use with coaxial cable lengths up to 20 metres. Options are available for harsh applications, extended temperature ranges and probe extensions for those hard to reach monitoring points



MHC 1000 Series Sensors for MHC-MEMO portable on-site instrument applications

| |  |  |  |  |  |  |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Code [1] | MHC-1030/Mag | MHC-1031/Mag/HD | MHC-1032/Mag/HT | MHC-1033/Mag/XS | MHC-1040/Probe/XXX | MHC-1050/Air/40 |
| Description | Standard | Heavy duty | Extended temperature | High Sensitivity (valve check) | Extended probe | Airbourne |
| Power Supply | MHC-Memo | MHC-Memo | MHC-Memo | MHC-Memo | MHC-Memo | MHC-Memo |
| Mounting | Magnetic | Magnetic | Magnetic | Magnetic | n/a | n/a |
| Mounting Boss | Boss C | Boss C | Boss C | Boss C | n/a | n/a |
| Output | TNC | TNC | TNC | TNC | TNC | TNC |
| Special order cable options | See Cable table for different options, for example coiled cable, TNC to BNC, different lengths etc. | | | | | |
| Material [2] | Rubber jacket | 304 SS | Rubber jacket | Rubber jacket | Rubber jacket | Rubber jacket |
| Std operating temp, (20XX) numbering | 0 to 70°C | 0 to 70°C | -40 to 120°C | 0 to 70°C | 0 to 70°C | 0 to 70°C |
| Dimensions | 83 x 34 | 87 x 34 | 87 x 34 | 83 x 34 | Specify length with order | 87 x 34 |

Notes

[1] "X" denotes a family of sensors under this product category, see table below for a full description.




[2] When considering the application, it is especially important to consider the suitability of the sensor and its cabling for the environment in which it is intended to be installed (temperature, moisture, chemical and physical ruggedness). If you are unsure please call and we will assist in selection.

MHC 1000 Series Sensors (portable sensors compatible with MHC portable instrument range) SERIES MODEL VARIANT

| | | |
|------|------------|--------------------------------------------------------------------|
| 1030 | Mag | Handheld magnetic mount sensor |
| 1031 | Mag /HD | Heavy duty magnetic mount sensor |
| 1032 | Mag /HT | Magnetic mount sensor for short term higher temperature use |
| 1033 | Mag /XS | Extra sensitive magnetic mount sensor for hydraulic valve checking |
| 1040 | Probe /XXX | Extended probe. Specify length of probe extension (XXX) in mm |
| 1050 | Air /40 | Sensor for airborne noise and gas leak detection |

MHC-2000 Series Sensors - 10 VDC Drive

There are two principle roles for permanently installed MHC sensors from Holroyd: hard-wired inputs to continuous monitoring systems or hard-wired but temporary connection to portable instruments (e.g. behind guards etc)

-  MHC-MEMO range of On-Site Condition Monitoring instruments
-  MHC-Point/Std and MHC-Point/Slo
-  SIMPAL Node/2000.

The versatile MHC - 2000 series of permanently installed AE sensors are designed for compatibility with:

They are suitable for coaxial cable lengths up to 20 metres. Extended temperature ranges are available with the coding 21XX

MHC 2000 Series Sensors for Permanent Installation with 10 VDC phantom drive.

| | | | | |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| |  |  |  |  |
| Code [1] | MHC-2010/LP/X | MHC-2020/CP/X | MHC-2021/CP/DP/X | MHC-2022/CP/WP/X |
| Description | Low profile | Cylindrical | Cylindrical dip coated | Cylindrical potted |
| Power Supply | 10 VDC 5 mA | 10 VDC 5 mA | 10 VDC 5 mA | 10 VDC 5 mA |
| Mounting | Adhesive or tab | M8 Male stud | M8 Male stud | M8 Male stud |
| Mounting Boss | n/a | Boss A or B | Boss A or B | Boss A or B |
| Output Note: cable length variants available | SMA connector [2] Dip coated comes with 5 m cable as standard | 5 m Cable | 5 m Cable | 5 m Cable & conduit adapter |
| Special order cable options | n/a | Extended cable, BNC/TNC rear connector | Extended cable | Extended cable |
| Material [3] | Painted tin plate (standard) polyurethane (dip coated) | 304 SS | Polyurethane | Polyurethane |
| Std operating temp, (20XX) numbering | -40 to 85°C | 0 to 70°C | 0 to 70°C | 0 to 70°C |
| Extended temp, (21XX) numbering | -40 to 120°C | -40 to 120°C | -40 to 120°C | -40 to 120°C |
| Dimensions LxWxH / LxDia | 54 x 35 x 14 | 83 x 34 | 85 x 42 | 155 x 45 |

Notes

[1] "X" denotes a family of sensors under this product category, see table below for a full description.

[2] Cables are ordered separately for the MHC-2010 sensor as they are detachable

[3] When considering permanently installed AE sensors it is especially important to consider the suitability of the sensor and its cabling for the environment in which it is intended to be installed (temperature, moisture, chemical and physical ruggedness). If you are unsure please call and we will assist in selection.

| | | | | | |
|-------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------|
|  | LP Sensor with SMA connector |  | LP/TAB with TNC connector |  | LP/TAB/DP dip coated tab mounted |
|-------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------|

MHC 2000 Series Sensors (permanently installed sensors with 10 V phantom drive) SERIES MODEL VARIANT

| | | |
|------|-------------|----------------------------------------------------------|
| 2010 | LP | Low Profile sensor (with SMA connector) |
| 2011 | LP /DP | Low Profile Dip Coated |
| 2015 | LP /Tab | Low Profile with Tab mount |
| 2016 | LP /Tab /DP | Low Profile Dip Coated with Tab mount |
| 2020 | CP | Cylindrical Profile |
| 2021 | CP /DP | Cylindrical Profile Dip coated |
| 2022 | CP /WP | Cylindrical Profile Waterproof Potted |
| 20XX | | standard temperature range sensors itemised above |
| 21XX | | sensor variants as above but with ET extended temp range |

MHC-3000 Series Sensors - 24 VDC Drive

The MHC - 3000 series of permanently installed AE sensors from Holroyd are designed for hard-wired input to continuous monitoring systems. Extended temperature capabilities are available, the standard sensor variants are code 30XX whilst the equivalent extended temperature range variants are coded 31XX.

They are specifically designed for use with:

 MHC-Point/Std and MHC-Point/Slo

 MHC-Node/3000

MHC - 3000 series sensors are suitable for coaxial cable lengths up to 100 meters.

MHC 3000 Series Sensors for permanent installation with 24VDC phantom drive.

| | | | | |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| |  |  |  |  |
| Code [1] | MHC-3010/LP/X | MHC-3020/CP/X | MHC-2021/CP/DP/X | MHC-3022/CP/WP/X |
| Description | Low profile | Cylindrical | Cylindrical dip coated | Cylindrical potted |
| Power Supply | 24 VDC 25 mA | 24 VDC 25 mA | 24 VDC 25 mA | 24 VDC 25 mA |
| Mounting | Adhesive or tab | M8 Male stud | M8 Male stud | M8 Male stud |
| Mounting Boss | n/a | Boss A or B | Boss A or B | Boss A or B |
| Output Note: cable length variants available | SMA connector [2] Dip coated comes with 5 m cable as standard | 5 m Cable | 5 m Cable | 5 m Cable & conduit adapter |
| Special order cable options | n/a | Extended cable, BNC/TNC rear connector | Extended cable | Extended cable |
| Material [3] | STET Painted tinplate (standard) Polyurethane (dip coated) | 304 SS | Polyurethane | Polyurethane |
| Std operating temp, (20XX) numbering | -40 to 85°C | 0 to 70°C | 0 to 70°C | 0 to 70°C |
| Extended temp, (21XX) numbering | -40 to 120°C | -40 to 120°C | -40 to 120°C | -40 to 120°C |
| Dimensions LxWxH / LxDia | 54 x 35 x 14 | 83 x 34 | 85 x 42 | 155 x 45 |

Notes

[1] "X" denotes a family of sensors under this product category, see table below for a full description.

[2] Cables are ordered separately for the MHC-3010 sensor as they are detachable

[3] When considering permanently installed AE sensors it is especially important to consider the suitability of the sensor and its cabling for the environment in which it is intended to be installed (temperature, moisture, chemical and physical ruggedness). If you are unsure please call and we will assist in selection.

MHC 3000 Series Sensors (permanently installed sensors with 24 V phantom drive) SERIES MODEL VARIANT

| | | |
|------|-------------|----------------------------------------------------------|
| 3010 | LP | Low Profile sensor (with SMA connector) |
| 3011 | LP /DP | Low Profile Dip Coated |
| 3015 | LP /Tab | Low Profile with Tab mount |
| 3016 | LP /Tab /DP | Low Profile Dip Coated with Tab mount |
| 3020 | CP | Cylindrical Profile |
| 3021 | CP /DP | Cylindrical Profile Dip coated |
| 3022 | CP /WP | Cylindrical Profile Waterproof Potted |
| 30XX | | standard temperature range sensors itemised above |
| 31XX | | sensor variants as above but with ET extended temp range |

Related Products • MHC-On-Site Instruments • MHC-On-Line Instruments • Spares and Accessories

About Kittiwake Holroyd Ltd

Holroyd are part of the Kittiwake group of companies. If your business is about condition monitoring of machinery, maintenance of industrial fuels and lubricants or monitoring of exhaust gases then Kittiwake operate in your field of expertise. Established in 1993, Kittiwake has grown into a leading global provider of monitoring and testing technology solutions with offices in the UK, Germany, India, USA, and Asia. Innovative technology solutions that make a real difference to your operations.

Have a look at our information center on www.condition-monitoring.com for hints and tips on how to maximize the benefits from your maintenance budget.



Kittiwake Holroyd Ltd
Via Gellia Mills
Matlock
Derbyshire
DE4 2AJ

Tel: +44 (0)1629 822060
Fax: +44 (0)1629 823516

sales@Kittiwakeholroyd.com
www.Kittiwakeholroyd.com