



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
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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