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Find the *SFK CMXA 70-M-SL-Z2* at our website: *Click HERE*

SKF Microlog Analyzer GX Series

ATEX Zone 2
Portable Data Collector/FFT Analyzer



High performance, two-channel, route based portable data collector/ FFT analyzer and certified for use in ATEX Zone 2 hazardous locations.

Features

- *Rugged design*
  - *2 meter multiple drop*
  - *IP 65 rated*
- *A 400 MHz X-Scale Intel® processor for exceptionally fast operation*
- *A 1/4 VGA color, transflective liquid–crystal display that enhances visibility in all environments – dark or bright*
- *Outstanding data-storage capacity with 30 MB flash memory for internal storage and equipped with PCMCIA and Secure Digital (SD) memory expansion slots*
- *USB communication ready*
- *Two simultaneous channels, plus trigger input*
- *Multi-plane balancing application*
- *Red, amber, green LED indicators*
- *Intuitive graphical user interface*
- *Right or left hand operation*

Introduction

The ATEX Zone 2 GX series provides Microlog users in hazardous locations the next generation data collector/analyzer with a large color display and powerful, modular platform. The Microlog model CMXA 70-SL-Z2 allows users to enter ATEX Zone 2 restricted areas and collect data without a hot work permit for the task. The equipment may be used with flammable gasses and vapors with apparatus groups IIA, IIB and IIC and with temperature classes T1, T2, T3, and T4. In addition to its full featured route and off route vibration monitoring/analysis features, its modular design allows operators and analysts to select the best combination of features required to meet the plant's asset monitoring needs, and provides the option to upgrade without buying another instrument. As analysis needs and expertise grow, so does the GX Series Microlog!

The GX Series is a truly hand-held route-based data collector, including vibration signal and process variables, over a range of 10 CPM (0.16 Hz) to 2,400,000 CPM (40 kHz). Bearing assessments are carried out using the industry proven SKF Acceleration Enveloping (gE) technology.

The GX Series utilizes the latest advances in analog and digital electronics, including digital signal processing (DSP) and a high resolution Sigma-Delta A/D converter to provide both speed and accuracy in the data collection process.

The GX Series provides a complete portable vibration analysis package when used with SKF @ptitude Montoring Suite, SKF Reliability Systems' family of reliability software applications.

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Specifications

The ATEX Zone 2 Microlog GX is also cleared for unrestricted operation and use of all GX modules and accessories ***outside the Zone 2 area.*** For information about unrestricted accessories and modules, please reference the Microlog GX datasheet CM2311. The following specifications apply for use in Zone 2 environments.

INPUT SOURCES

Acceleration, velocity, and displacement from hand-held or installed vibration sensors or monitoring systems.

The Zone 2 certified Microlog GX is restricted to a limited number of accelerometers within the Zone 2 area. All Microlog model CMXA 70-SL-Z2 kits include accelerometer part number CMSS 793-EE, which is included in the Zone 2 certification. For more information about certified accelerometers consult the product's Safety Instructions.

Keyboard entry: Measurements read from indicators or installed instruments entered in engineering units.

Visual inspections: Added to measurement as coded notes.

PREPROCESSING

Enveloper (demodulator): With four (4) selectable input filters for enhanced bearing and gear mesh fault detection.

Filter selection:

- 5 Hz – 100 Hz
- 50 Hz – 1,000 Hz
- 500 Hz – 10 kHz
- 5 kHz – 40 kHz

INPUT PARAMETERS

Input over-voltage protection: AC ± 50 V peak, DC ± 50 V Sustained

Dynamic range: >90 dB (20 bit ADC sigma-delta)

Amplitude accuracy: 5%

Input connectors:

- *Channel 1:* 6 pin Fischer x, y, z input ICP™/AC/DC, trigger In
- *Channel 2:* 6 pin Fischer y input ICP™/AC/DC, trigger in, trigger tachometer power supply
- *Other I/O:* 7 pin Fischer trigger in, trigger tachometer power supply, USB2, COMMS, charger

DATA PROCESSING AND STORAGE

Microprocessor: Intel Xscale PXA255 at 400 MHz

DSP processor: MOTOROLA® DSP56307

Memory:

- OS storage application, user data 64 MB Flash
- Internal RAM 64 MB

PCMCIA: Type I, type II and CF via adapter

MEASUREMENT

Range: *Route measurements:* 0.18 Hz to 40 kHz
Off route measurements: 0.16 Hz to 40 kHz

Averaging: Programmable from 1 to 9,999.

Averaging type: Linear, synchronous time and continuous.

MEASUREMENT (continued)

Cursor: Fixed and cursor lock. Single, harmonic and peak pick.

Trigger modes: Free run or external trigger (trigger slope and amplitude).

Resolution: Programmable 100, 200, 400, 800, 1600, 3200, 6400 and 12800 lines (12800 lines in Off Route only).

Measurement windows: Hanning, flat top and rectangular.

Multi-point automation: Up to 12 measurements can be linked for one-button push automated data collection for each measurement location.

DATA DISPLAYS

- Spectrum, two-channel time, phase table, process, orbit, cross channel phase and two-channel FFT.
- Simultaneous spectrum, time waveform, peak hold averaging.
- Up to 12 bands (fixed or order base) downloadable from host software.

POWER

Battery: BP-12 CC manufactured by AXEON.

- Lithium-ion rechargeable battery pack
- 7.4 V
- 2.2 Ah
- 9 hours continuous data collection or 26 hours idling in a process product
- 2.5 hours charge time
- Cannot be charged in an ATEX Zone 2 enviroment

PHYSICAL DATA

Keyboard: Sealed chemical resistant elastomeric silicon, tactile touch, numeric.

Dedicated keys: Up, down, right and left two enter keys for right and left hand operation, four function keys.

Hot keys: Peak find, harmonic, expand.

LCD screen: Color 1/4 VGA 320 pixels x 240 pixels (54 mm x 72 mm) viewable.

PHYSICAL DATA (continued)

Case: High impact ABS with IP 65 dust and splash rating and fitted with the RB-1 rubber boot.

Weight: 715 grams (1.6 lb)

Size:

- 186 mm x 93 mm (7.44" x 3.72") narrowest point
- 186 mm x 134 mm (7.44" x 5.36") widest point

ENVIRONMENTAL

Hazardous locations:

ATEX: II 3 G
Ex nL IIC T4
Ta= -20 °C to +50 °C (-4 °F to +122 °F)

IP Rating: IP 65

Temperature range storage: -20 °C to +60 °C (-4 °F to +140 °F)

Temperature range operating: -10 °C to +50 °C (+14 °F to +122 °F)

Humidity: 95% non-condensing

Equipment may be used with flammable gasses and vapors with apparatus groups IIA, IIB, and IIC and with temperature classes T1, T2, T3 and T4.

COMMUNICATIONS

Communication:

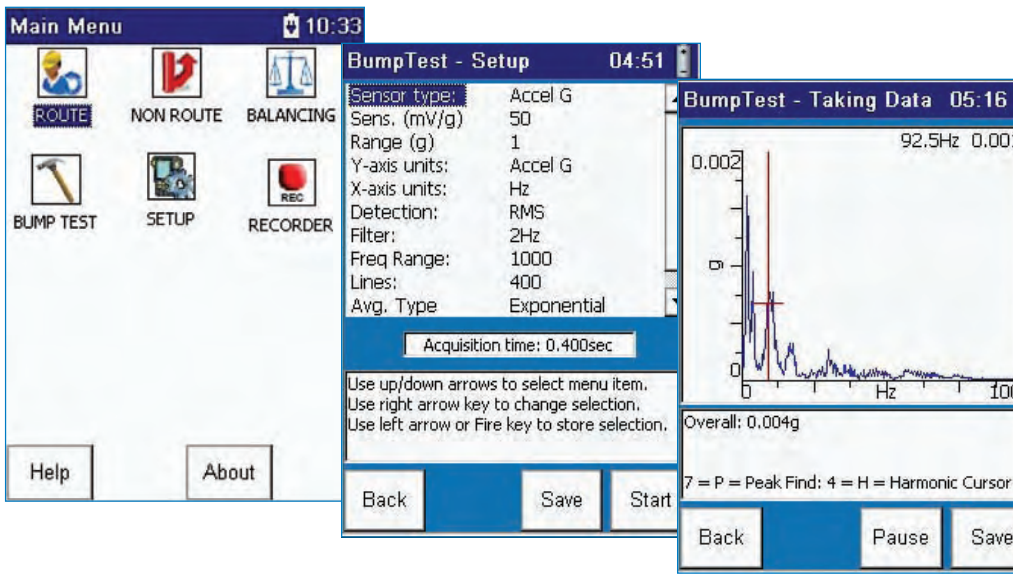
- 19200, 38400 and 115,200 baud rates for data transfer via RS-232.
- USB communication via Microsoft® ActiveSync®.

PRINTING

PCL and PJ200 compatible printers through interface. screens can be saved to PC Card as a windows bitmap. Printing is restricted to non-ATEX Zone 2 areas only.

HOST SOFTWARE

The Microlog GX Series requires SKF @ptitude Monitoring Suite, version 4.0 and USB communication for full feature functionality. SKF Machine Suite version 3.2 for limited features and with data transfer via USB communication.



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Ordering information

SKF Microlog GX-M Series
ATEX Zone 2
Master Portable Data Collector/FFT Analyzer

The **GX-M Series** [CMXA 70-M-K-SL-Z2] standard kit includes:

- CMXA 70-M-SL-Z2 unit, programmed for two-channel route measurements and one or two plane static or dynamic couple balancing application
- CD-ROM, user manuals, utilities, asset information page and literature
- USB/power splitter cable [CMAC 5019]
- Battery BP-12 CC [CMAC 5060]
- Cable, power cord, UL 110, US [CMVA 3351]
- Power adapter/battery charger [CMAC 5022]
- Communication cable, 9-Pin, RS-232 [CMAC 5201]
- Two (2) accelerometer, ATEX (100 mV/g [CMSS 793-EE]
- Two (2) cable, sensor, coiled [CMAC 5209]
- Two (2) magnetic base accelerometer, medium duty, 3.81 cm (1-1/2") diameter [CMSS 908-MD]
- Rubber bump sleeve [CMAC 5015]
- Hard shell carrying case [CMAC 5029]
- Hand strap [CMAC 5020]
- Shoulder strap [CMAC 5010]
- Two (2) screen protectors
- Connector cover set with lanyard

FIELD UPGRADES TO GX-M SERIES BASE MODEL

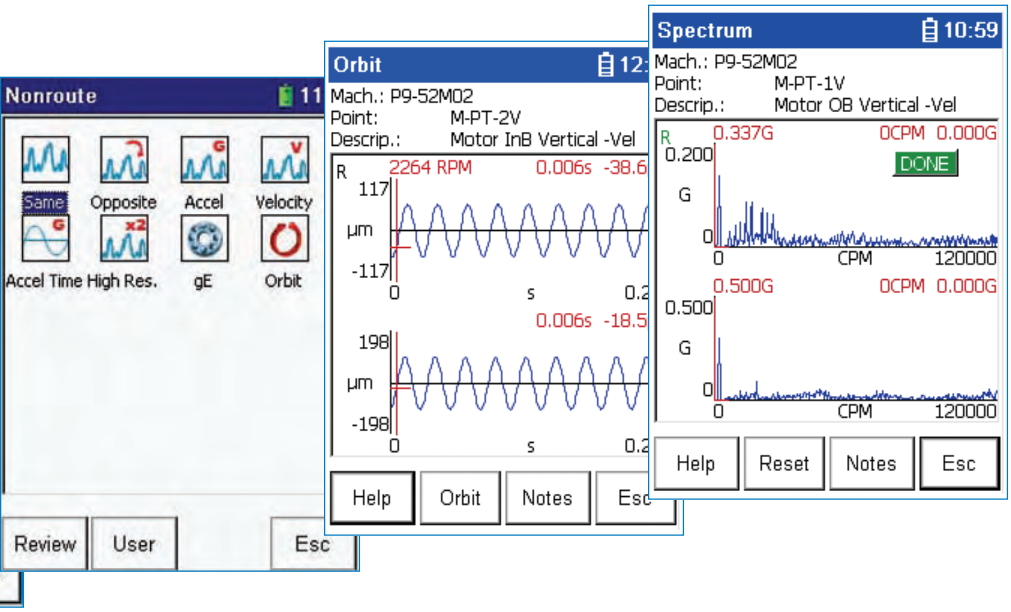
- GX Series bump test field upgrade [CMXA 70BMP-SL]
- GX Series data recorder field upgrade [CMXA 70REC-SL*]
- GX-M series to GX-S series field upgrade [CMXA 70-GXM/S-SL]

SKF Microlog GX-S Series
ATEX Zone 2
Superior Portable Data Collector/FFT Analyzer

The **GX-S Series** [CMXA 70-S-K-SL-Z2] standard kit includes:

- CMXA 70-S-SL-Z2 unit, programmed for two-channel route measurements, one or two plane static or dynamic couple balancing, balancing bump test and data recorder*
- CD-ROM, user manuals, utilities, asset information page and literature
- USB/power splitter cable [CMAC 5019]
- Battery BP-12 CC [CMAC 5060]
- Cable, power cord, UL 110, US [CMVA 3351]
- Power adapter/battery charger [CMAC 5022]
- Communication cable, 9-Pin, RS-232 [CMAC 5201]
- Two (2) accelerometer, ATEX (100 mV/g [CMSS 793-EE]
- Two (2) cable, sensor, coiled [CMAC 5209]
- Two (2) magnetic base accelerometer, medium duty, 3.81 cm (1-1/2") diameter [CMSS 908-MD]
- Rubber bump sleeve [CMAC 5015]
- Hard shell carrying case [CMAC 5029]
- Hand strap [CMAC 5020]
- Shoulder strap [CMAC 5010]
- 512 MB secure digital memory card [CMAC 5027]
- Two (2) screen protectors
- Connector cover set with lanyard

* *CH1+Tacho mode is not allowed in ATEX Zone 2 areas. CH1 or CH1+CH2 modes are allowed in Zone 2. Please consult your Site Safety Officer for further clarification.*





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SKF Microlog Analyzer GX Series ATEX Zone 2 Portable Data Collector/FFT Analyzer

Ordering information

OPTIONAL ACCESSORIES

A number of accessories are available to complement the ATEX Zone 2 GX Series. These include: hard carrying case, shoulder strap, bump sleeve, docking station, DC cables, accelerometer and cables, USB cable.

Battery

- Battery BP-12 CC [CMAC 5060]

Accelerometer

- Accelerometer, ATEX (100 mVg) [CMSS 793-EE]
- Two (2) magnetic base accelerometer, medium duty, 3.81 cm (1-1/2") diameter [CMSS 908-MD]

Cables

- USB/power splitter cable [CMAC 5019]
- Cable convertor, 2-pin Mil/BNC [CMAC 3715]
- Communication cable, 9-pin RS-232 [CMAC 5201]
- Power cord, UL 110, US [CMVA 3351]
- Sensor, coiled [CMAC 5209]

Miscellaneous accessories

- Rubber bump sleeve [CMAC 5015]
- GX series docking station [CMAC 5016-A]
- Hard shell carrying case [CMAC 5029]
- Hand strap [CMAC 5020]
- Shoulder strap [CMAC 5010]
- Screen protector (12 Pieces) kit [CMAC 5004]
- Connector cover set with lanyard [CMAC 5017]

International accessories

NOTES:

- Contact your local SKF sales representative for any export restrictions.
- The North American cord sets will be shipped with all new units.

International power cord accessories, two (2) cord sets will be provided, the standard North American power cord and the requested International power cord.

- Power cord, Australia [CMAC 4222-AU]
- Power cord, Switzerland [CMAC 4222-CH]
- Power cord, Denmark [CMAC 4222-DK]
- Power cord, European [CMAC 4222-EUR]
- Power cord, Israel [CMAC 4222-IL]
- Power cord, Italy [CMAC 4222-IT]
- Power cord, Japan [CMAC 4222-JP]
- Power cord, United Kingdom [CMAC 4222-UK]

Product Support Plans

A range of Product Support Plans are available to protect your investment. Contact your local SKF Reliability Systems sales representative for additional information.

For additional information on SKF Reliability Systems products, contact:

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