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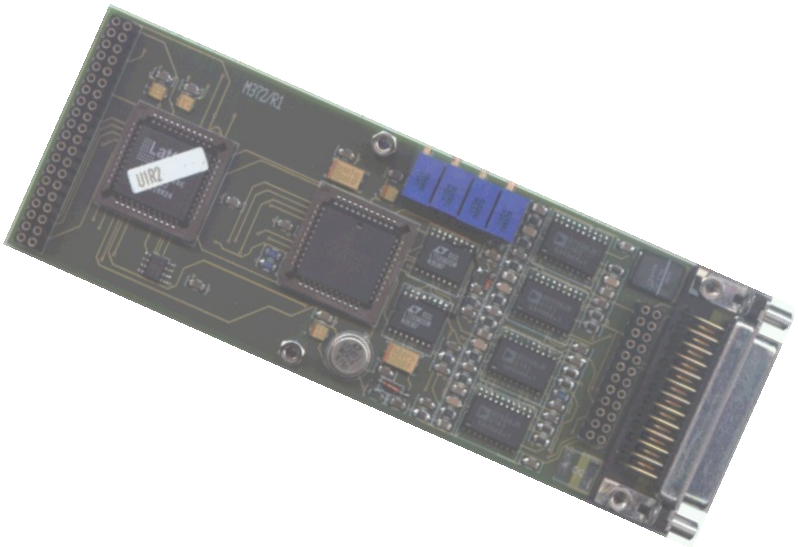
Expert team | Trust guarantee | 100% satisfaction

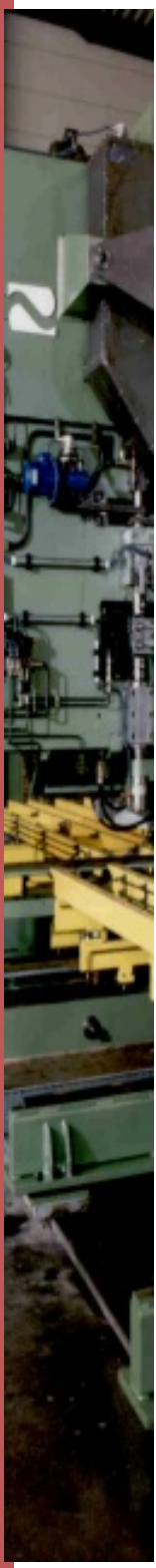
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Find the *AcQ Inducom / AcQuisition Technology M320* at our website: ***Click HERE***

M372

LVDT/RVDT Controller M-module





The M372 LVDT/RVDT Controller M-module is capable of handling up to four LVDT/RVDT devices. All conversions are made with 13-bit resolution using the National Semiconductor LM12458 Data Acquisition System. The device contains a sequencer that allows complex conversion algorithms to execute without host intervention. Conversion results are stored in an on-chip FIFO from which it can be read by the host.

The LVDT/RVDT signal conditioner is implemented using the AD598 from Analog Devices. This device generates the excitation for the LVDT/RVDT devices and measures the feedback on the secondary coils. As a result, it generates a DC voltage that is representative for the core displacement.

- AD598 integrated LVDT signal conditioner for each LVDT channel
- Wide range adjustable LVDT excitation frequency and amplitude
- Interfaces to 4/5/6-wire LVDT/RVDT devices
- Distance between LVDT/RVDT devices and M372 can be up to 100 meters
- LM12458 integrated data acquisition system with 13-bit resolution and sequencer
- Programmable conversion rate, resolution number of conversions and comparison limits
- Interrupt on numerous programmable events (i.e. sequence completion, limit crossing)
- Operates with minimum CPU intervention after initialization

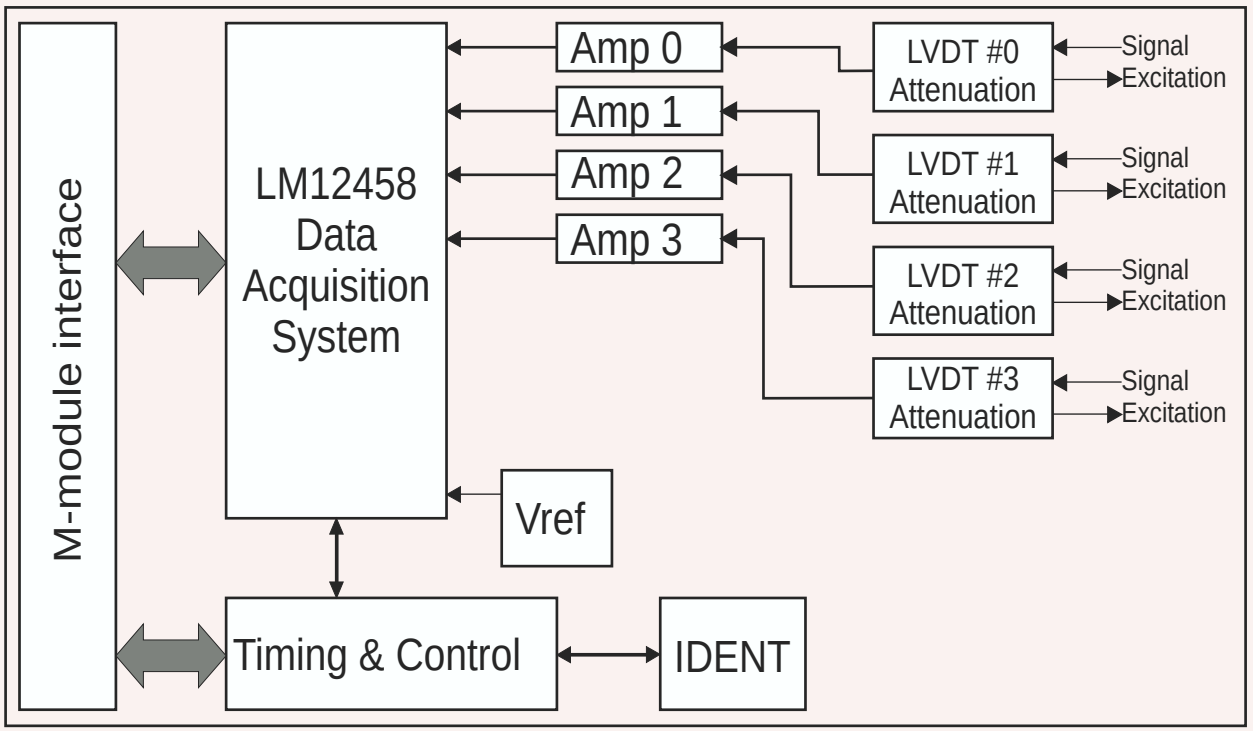


Committed to Quality

AcQuisition Technology B.V.

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Block diagram

MEMBER VITA
VMEbus INTERNATIONAL TRADE ASSOCIATION

M-module Compliancy

- A08/D16 (8-bit address and 16 bit-data)
- INTA (software end-of-interrupt)
- IDENT (identification EEPROM)

Data Acquisition

- LM12458 DAS (Data Acquisition System), self-calibrating
- Programmable resolution (8-bit + sign or 12-bit + sign)
- 8.8 microseconds conversion time in 13-bit mode
- 32 words FIFO buffer
- Programmable sequencer

Signal Conditioning

- AD598 LVDT signal conditioner
- Internal excitation voltage oscillator and ratiometric demodulator with outstanding performance (linearity error max. 0.05% of full scale)
- Excitation frequency from 20Hz to 20kHz Amplitude in the range of 0 to 5.7 Vrms
- The four AD598 devices are synchronized to avoid beat notes

Ordering Information

- M372/MOD
  M372 M-module
- M372/MAN
  M372 manual on paper
- M372/SW
  APIS based software

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