

MS-8 Multiplexer for Multichannel Ultrasonic Testing

MS-8

8 Channel Multiplexer



The Krautkramer MS-8 Multiplexer is designed to provide economical multichannel capability when combined with a standalone flaw detector.

The MS-8 is self contained in an industrial hardened package for years of troublefree use and ease of service. The configuration consists of a modular chassis that can easily be connected to a flaw detector.

The MS-8 offers unrivaled expansion capability providing from 1-32 channels of flaw detection by synchronizing up to 4 units together.

Main testing application of the MS-8 are:

- End area inspection of pipe
- Plate inspection
- Nuclear inspection



4 MS-8's performing 32 channel operation

Instrument Description

- Multiplexed channel operation from 1-8 channels
- Up to 4 MS-8 units can be connected together to provide 32 channels using one flaw detector
- Pulse Echo and Through Transmission modes
- Over 40dB Dynamic range per channel
- Easy operation
- Individual Gain and Damping per channel
- Manual Step mode or multiplexed Run mode
- External channel addressing for eliminating crosstalk

Pulser Performance

- 200 Volts Spike pulser
- Rise Time <10 nanosecond
- Damping 23 to 500 Ohms
- Pulse Echo Mode
- Through Transmission Mode

Amplifier Performance

- Dynamic Range > 40 dB
- Gain Range -14 dB to +30 dB
- Bandwidth .5 MHz to 40 MHz

Inputs and Outputs

- 2 TTL Outputs per channel
- Individually sorted TTL outputs
- External Triggering from Flaw detector
- External Channel addressing to control firing sequence

System Performance

- Maximum repetition rate 40 KHz
- Individual dual color LED's for displaying run status and alarm on a per channel basis

Power Requirements

- 110-240 Volts AC
- 50 - 60 Hertz