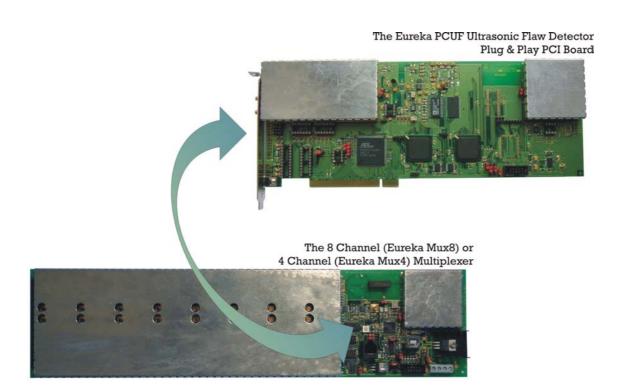
AN 8 OR 4 CHANNEL ULTRASONIC FLAW **DETECTOR FOR SYSTEMS APPLICATIONS**



The Eureka PCUF-Mux8 provides a low cost solution for OEM ultrasonic application and inline multiple channel ultrasonic inspection systems. It uses the tried and trusted Eureka PCUF which is a very high speed ultrasonic flaw detector board; please refer to its brochure for a detailed specification. As an option a four channel multiplexer may be supplied, the Mux4.

The Eureka PCUF-Mux8 can be operator programmed to give any sequence of transmitting and receiving for the selected probes. This enables any combination of pulse echo, through transmission and cross coupling functions to be configured with no hardware changes.

Has Remote Pulsers, Pre-Amplifiers and Attenuators. Provides independent setting of ALL parameters. Multiple channel digital display selectable for 1, 2, 4 or 8 probes. 0.5 to 20MHz bandwidth.

Maximum pulse repetition rate of

(²⁰/_{Number of active channels}) KHz. 10 bit A/D conversion at 200MHz for 100% pulse repetition rate.

Excellent near surface resolution. Very low noise in the PC environment, better than 20% full screen height.



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TECHNICAL SPECIFICATION

Eureka PCUF

Please refer to the Eureka PCUF brochure and technical

specification

Channels Max 32 cards per system Max 8 probes per card

PRF Rates 20 - 20.000 Hz Synchronisation Internal / External

Multiplexing 1 to 8 probes per card (with all

parameters individually

controllable)

Remote Transmitter

Voltage 100 / 200 / 300 / 400V
Pulser Square Wave
Trigger Internal / External
Pulse Width 20 to 1000 nsec

Pulse Delay 0 to 327.68 µsec in 1.28 µsec

steps (20 nsec optional)

Fall time 5 nsec

Test Mode Pulse Echo / Through

Transmission

Input Attn. 20 dB

Software

A-Scan Display Installable software with

parameter menu

Support drivers for Win2K and WinXP Library parameters stored in Dynamic

Link Libraries / ActiveX Control for accessibility with other programmes

Help Interactive help menu

Multiplexing

Firing Parallel firing multi-channel

Timed firing Delayed firing

Sequence Selectable firing sequence Independent Settings All setting are independent

