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Equipment Services and Data Solutions

Ultrasonic Flow Detectors & Phased Array Systems

Nondestructive Testing (NDT)



Olympus IMS

Olympus Epoch 600 Ultrasonic Flow Detector

Pine Item #54135

DESCRIPTION:

The EPOCH 600 Digital Ultrasonic Flow Detector combines Olympus' industry leading conventional flaw detection capabilities with the efficiency of a highly portable, intuitive instrument. The EPOCH 600 flaw detector's blend of efficient menus and direct access keys allows you to take advantage of the highest quality flaw detection platform with exceptional ease of use.

FEATURES:

- Designed to meet the requirements of EN12668-1
- PerfectSquare tunable square wave pulser
- Digital high dynamic range receiver
- Eight digital filters for enhanced signal-to-noise ratio
- 2 kHz PRF for rapid scanning
- Knob or navigation pad adjustment configurations
- Large full VGA sunlight readable display
- Long battery life supporting lithium-ion or alkaline batteries
- Standard dynamic DAC/TVG and onboard DGS/AVG
- 2 GB MicroSD memory card for data transfers and storage
- USB On-The-Go (OTG) for PC communication
- Optional analog output
- Alarm and VGA outputs

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Product Specifications

| | |
|---|--|
| Languages | English Spanish French German Japanese Chinese |
| Transducer connections | BNC or Number 1 LEMO |
| Data storage | 50000 IDs onboard removable 2 GB MicroSD card (standard) |
| Battery type | Single lithium-ion rechargeable standard |
| Battery life | 12 h to 13 h (lithium-ion) 3 h (alkaline) |
| Power requirements | AC Mains: 100 VAC to 120 VAC 200 VAC to 240 VAC 50 HZ to 60 Hz |
| Display type | Full VGA (640 x 480 pixels) transfective color LCD 60 Hz update rate |
| Display dimensions (W x H Diag.) | 117 mm x 89 mm 146 mm (4.62 in. x 3.49 in. 5.76 in.) |
| Pulser | Tunable Square Wave |
| PRF | 10 Hz to 2000 Hz in 10 Hz increments |
| Energy settings | 100 V 200 V 300 V or 400 V |
| Pulse width | Adjustable from 25 ns to 5000 ns (0.1 MHz) with PerfectSquare technology |
| Damping | 50 100 200 400 0 |
| Gain | 0 to 110 dB |
| Maximum input signal | 20 V p-p |
| Receiver input impedance | 400 Ω \pm 5% |
| Receiver bandwidth | 0.2 MHz to 26.5 MHz at -3 dB |
| Digital filter settings | Eight digital filter sets standard (0.2-10 MHz 2.0-21.5 MHz 8.0-26.5 MHz 0.5-4 MHz 0.2-1.2 MHz 1.5-8.5 MHz 5-15 MHz DC-10 MHz) |
| Rectification | Full-wave Positive Half-wave Negative Half-wave RF |
| Horizontal linearity | \pm 0.2% FSW |
| Vertical linearity | 0.25% FSH amplifier accuracy \pm 1 dB |
| Reject | 0 to 80% FSH with Visual Warning |
| Amplitude measurement | 0 to 110% full screen height with 0.25% resolution |
| Measurement rate | Equivalent to PRF in all modes |
| Measurement display locations | 5 locations available (manual or auto selection) |
| Gate 1 | Thickness Soundpath Projection Depth Amplitude Time-Of-Flight Min./Max. Depth Min./Max. Amplitude |
| Gate 2 | Same as Gate 1 |
| Echo-to-Echo | Standard Gate 2-Gate 1 |
| Other measurements | Overshoot (dB) value for DGS/AVG ERS (equivalent reflector size) for DGS/AVG AWS D1.1/D1.5 rating (D) Reject Value |

Product Specifications

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|----------------------------------|---|
| DAC/TVG | Standard |
| DAC points | Up to 50 points 110 dB dynamic range |
| Special DAC modes | Custom DAC (up to 6 curves) |
| Curved surface correction | Standard OD or Bar correction for Angle Beam measurements |
| Dimensions | US: 9.3 x 6.6 x 2.76 in. Metric: 236 x 167 x 70 mm |



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