

Technical Specifications

P-3105

Pulse Transmitter.....	1
Transmitter Voltage.....	250 V _{SS} , @ 50 Ω
Pulse Receiver.....	1
Frequency Filters.....	10, 15, 20 MHz (±30%), software selectable
Programmable Test Functions.....	1Receiver Signal rectified (processed signal)
Sampling Rate.....	80 MSPS
A/D Converter Resolution.....	8 bits
Signal Processing.....	on-line signal processing, LCA
Signal Averaging.....	2 ^N , N=0, 1, 2...10
Signal Resolution.....	50 nsec
Programming.....	PC AT-386 or higher
Platform.....	MS-DOS® and Windows® 3.1 or higher
Input Devices.....	external keyboard and mouse for MS-DOS® and Windows®, touch-screen option for Windows®, bar-code reader for quick parameter input
Data Evaluation.....	numerical computation of case hardening depth of the back-scattered signals (averaged)
Operation Modes.....	Individually averaging cycle or continuous cycle sequences
Data Display.....	setup data, A-scan display, numerical hardening depth on integrated LCD color monitor (TFT)
Data Storage.....	internal hard disk (85 Mb), including e.g., setup parameters, component parameters, user-specific parameters, acquired data, etc.
Data Output.....	optional printer (LPT interface), setup documentation, examination documentation and stored A-scan displays

Equipment Features

Casing.....	plastic case, aluminum chassis, IP 54 (closed, spray waterproof)
Casing Dimension.....	300mm (12") W, 255mm (10") H, 120mm (5") D
Weight.....	7¼ kg (16 Lbs.)
Operating Temperature.....	+ 5° to 30° C (41° to 86° F) @ 10% to 75% humidity
Interfaces.....	external keyboard (AT-Style, 101 keys), 3.5" floppy drive, one parallel port, one serial port (RS-232)
Internal Power Supply.....	10 to 14 VDC with NiCd battery (~ 180 min. operation)
External Power Supply.....	110 to 220 VAC (continuous operation)

Documentation

P-3105.....	user manual – operating instructions
Software.....	user manual – operating instructions
Peripherals.....	user manual – operating instructions