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UK1401 Surfer – Surface Ultrasonic Pulse Velocity



- Easy testing in seconds
- Automated crack depth mode
- Built-in automatic gain regulation system
- Audible indication of test success
- Data logs up to 4000 readings with the ability to group readings
- Infrared data transfer to PC
- Simple operation using 5 button keyboard
- Automatic power down

SPECIFICATIONS

Time measurement range	15 - 100 μ s
Velocity measurement range	1500 - 9999 m/s
Crack depth measurement range	10-50 mm
Measuring error	\pm 1%
Working frequency	50 kHz
Operation temperature range	-20°C to +50°C
Operation time	100h
Size	200 x 120 x 35 mm
Weight of electronic unit	350g
Quantity of objects in memory	4000

INTRODUCTION

The Surfer ultrasonic tester is suitable for the measuring of time and velocity of ultrasonic p-waves in hard materials including concrete, rocks and ceramics. The Surfer has major advantages of other products on the market in that it doesn't require coupling gel and takes seconds to perform the test. This improves work flow, especially where a large volume of testing is to be carried out.

APPLICATIONS

There are many applications for the Surfer, including:

- The determination of the strength and integrity of concrete. The evaluation is based on correlation the velocity of ultrasound waves in material and its mechanical parameters and physical condition
- Search of close-to-surface flaws by velocity decreasing or increasing around a potential flaw
- Evaluation of the degree of anisotropy in composite materials
- Evaluation of the degree of concrete aging
- Evaluation of crack depths
- Evaluation of porosity and fissuring in materials

FEATURES

The device features an ergonomic body made from light weight shock-proof plastic that makes it very convenient to work with in field. With two built-in DPC (dry point contact) transducers it allows testing to take place without contact liquid. The transducers are wear-resistant and are not influenced by condition of surface allowing the user to without surface preparation.

PCTE

PCTE have over 30years experience in the measurement and testing of concrete. With experience in research, consulting and construction they are able to assist you in reviewing the issues and developing solutions. PCTE can provide more than just the equipment. They can provide leading technical support for your business.

OTHER EQUIPMENT

The ACS range includes the Surfer as well as our newest piece of equipment is the MIRA Ultrasonic Pulse Echo imaging system. The Olson Instrument range includes the CTG, NDE360, Freedom Data PC and DAS as well as the resonance tester. The full Proceq range of equipment is available for insitu non destructive concrete measurement, including Schmidt Hammers, Covermeters, Half Potentials, Resistivity, Ultrasonic's and Permeability. We also supply Intelli-Rock maturity, temp and humidity logging systems, corrosion rate monitoring equipment, Ground Penetrating Radar.