

DIGITAL INTERFACE

HDA200



Year 1
study

Features

- Single Interface used with 18 'HST' Structures Experiments
- Structures Software supplied as standard
- No need for additional interfaces
- USB Interface
- Inputs: Force/Strain(x20), Deflection(x4), Angle(x2)
- Quick and simple connections to experiments
- Integral backlit display
- Front panel key pads
- 'Online' or 'Offline' mode
- Frame or Bench mountable
- Universal Power supply with worldwide socket adaptors supplied

Description

The HDA200 Interface is a unique and compact unit that

is essential for all relevant Structures Range experiments requiring the key parameters of Force, Strain, Deflection and Angle to be captured and displayed.

The HDA200 Interface can run standalone with the experiment hardware OR in parallel with the experimental software. The experiment transducers are wired into the HDA200 Interface using front mounted, quick connect screw terminals. The integral 4 line, backlit LCD displays only the parameters being fed into it by the experiment hardware. The parameters have their respective Engineering units also displayed, i.e. N, mm, ??, °.

The HDA200 Interface is supplied in a corrosion resistant metal enclosure, with rubber feet for bench top mounting. A frame mounting bracket is also supplied for mounting onto the HST1. The LCD has an excellent viewing angle. A universal power supply is supplied, and the HDA200 can also run from a powered USB socket using the cable supplied. A Comprehensive Instruction manual is

supplied suitable for student operation of the hardware and covers all aspects of set-up, and operation.

Related laws

- Relationship between Stress & Strain
- Young's Modulus
- Cross sectional Area
- Applied Force
- Torsion
- Deflection
- Tension
- Compression

Learning capabilities

- Please refer to individual structures experiments

Technical Specification

- 20 Strain/Force inputs, 6 displacement inputs, 2 angle
- Standalone (local) or software parallel mode (USB Mode)
- Scroll up and down screens to view more than 4 experiment parameters
- Priority channel function
- Quick connect terminals
- One USB port
- Front panel key pads
- Backlit 4 line LCD display
- Universal Power supply: 80 – 265Vac input; 15Vdc output; worldwide socket adaptors supplied

Essential Ancillaries

- Appropriate Structures Range Experiment with Transducer Output

Recommended Ancillaries

- Computer or Laptop running WIN7 or above

What's in the Box?

- 1 x Interface
- HST1 Frame bracket
- 1 x Screwdriver
- 1 x USB cable

- 1 x Power supply
- 6 x Spare connectors
- 2 x Hex wrench
- Fasteners
- HSTS Software media
- Instruction manual
- Packing list
- Test sheet

You might also like

- HAC20
- HAC20M
- HPM15

Supporting Software

- HSTS

Minimum System Requirements

- Windows 8 and 8.1 (32 & 64 bit)
- Windows 7
- Windows 7 Service Pack 1
- Windows Vista Service Pack 1
- Windows XP Service Pack 3
- Recommended Minimum: Pentium 1 GHz or higher with 512 MB RAM or more
- 850MB minimum disk space for x86
- 2GB minimum disk space for x64
- VGA Monitor capable of at least 16-bit colour at 1024 x 768 resolution
- USB1.1 or USB2 for data acquisition connection.
- Powered USB port(s) if possible

Weights & Dimensions

- Weight: 2 kg
- Length: 250mm
- Width: 160mm
- Height: 60mm

Essential Services

- 110/120V, 60Hz or 220/240V, 50Hz, single phase, live neutral and earth.

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Operational Conditions

- Storage temperature: -10°C to +70°C
- Operating temperature range: +10°C to +50°C
- Operating relative humidity range: 0 to 95%, non condensing

Ordering information

To order this product, please call PA Hilton quoting the following code:

HDA200

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