

# HYBOND

## MODEL DFS-II

### DYNAMIC FORCE MEASUREMENT SYSTEM

For measuring force and time parameters on manual, semiautomatic and automatic wire bonders.



#### STANDARD FEATURES:

- ! Ambient temperature sensor.
- ! Reference trace storage.
- ! Adjustable datum and cursor.
- ! CRT display.
- ! 90 - 130 or 130 - 265VAC input, 45 - 440Hz.
- ! Built-in four color plotter.
- ! Real time clock with battery backup.
- ! Force measurement displayed in grams.
- ! Setup is stored in memory for 30 days.
- ! Works on manual, semi-auto & auto bonders.

HYBOND's DFS-II measures a bonder's dynamic force in real time. When the tip of a bonding tool presses against the sensor, the CRT will display a wave form that represents the duration and magnitude of the bond head force. This information is measured in milliseconds and grams and can show potentially damaging conditions ranging from head bounce to table vibration to force and/or time inconsistencies. The DFS-II simplifies the setup of machines of different makes and models by matching the force and time settings regardless of the bonder's front panel adjustments or difference in calibration. The built-in four color plotter allows for hard copy documentation of force measurements and can plot a reference trace superimposed on any measurement taken for comparison. The DFS-II is used for calibration, troubleshooting and training.

### Options:

- ! High temp. sensor assembly rated to 160EC.
- ! WST-15A for supporting sensor.

- ! Calibration kit (ambient or high temp.).
- ! Extra plotter pens and/or paper.

### DFS-II Specifications:

- ! Scope Force Range: 0 - 8,000 grams (limited by sensor force range).
- ! U/S Power Range: **Does not measure ultrasonics** (U/S must be off while using the DFS-II).
- ! Time Range: 1FSec/div. to 500 Sec./div.
- ! Sensor Force Range: 10gr. to 1Kg.
- ! Temperature Range: Ambient or up to 160EC when using the high temp. sensor.
- ! Maximum Sample Rate: 100 Mega samples per second.
- ! Data Transfer: Via RS423 port.
- ! Input Power Requirements: 90 to 130 VAC or 130 to 265VAC; 45 to 440Hz.
- ! Minimum Bench Space Required: **Height:** 5.25in (13,3cm) **Width:** 14in (35,6cm) **Depth:** 17in (43,1cm).
- ! Unit Weight/Shipping Weight: 16Lbs (7,27Kg)/20Lbs (9,1Kg), shipping weight will vary.
- ! Industry Standards: CE.

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