

Using the **Transducer-Test-System TTS-030** it will be possible to realise an essential control of all ultrasonic transducers – the core part or any wire and ultrasonic die bonder.

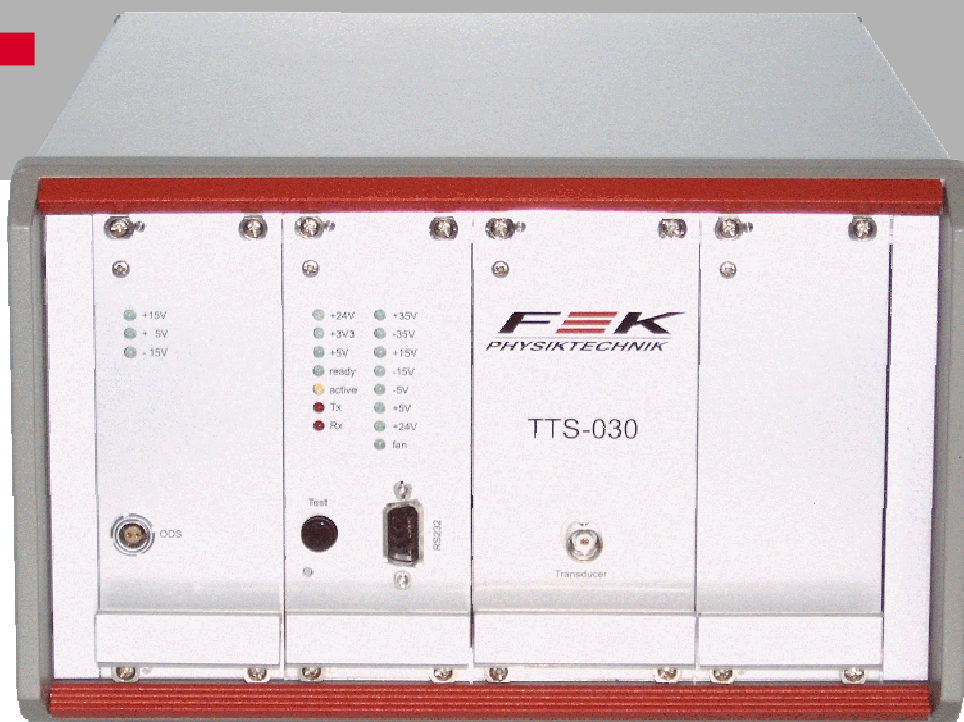
Also the way of integration of the transducer into the bond head, as well as the bond tools in the horn will have a decisive influence on the bond behaviour. This can be measured direct in the machine using **TTS-030**.

Furthermore verification of stability of the ultrasonic system over time will be possible. Thus preventive maintenance can be done to prevent bond problems.

In addition tool vibration measurement data from an **ODS-20** can be sampled together with the electrical data.

Using the **TTS-030** the user can save cost and time and create better bond quality.

# TTS-030



Two preconfigured systems are available. One designed for use with fine (thin) wire bond machines. And one for the use with fine (thin) and heavy (thick) wire bond machines as well as with ultrasonic die bond machines. The hardware communicates with the software using serial interface.

3030-S-FF

### TTS Software

Version 3.0 *Software release*

free configurable views for different measurements *Features*

free scalable axes of the diagrams

zoom functions

cursor functions for special measurements

save, print and export of data

Microsoft Windows

(Windows 2000, Windows XP & Windows 7)

*Operating systems*

### All packages

Resonance frequency *Measured values*

Resonance impedance

Resonance power

Tool vibration excursion

(if ODS connected)

20 to 200 kHz *Frequency range*

1 Hz *Frequency resolution*

± 2.5% *Full scale accuracy*

Voltage constant & power constant *Control loop*

Short-circuit protected *Protection*

approx. 10.5" x 6" x 12.4" *Dimension*

Integrated power supply, 115/230 VAC, 50/60 Hz *Power supply*

RS232 \*) *Communication interface*

### Fine wire package

**5 Watts** at 22 Ohms *Maximum power*

### Heavy wire / die bonder package

**30 Watts** at 32 Ohms *Maximum power*

\*) *USB to RS232 converters can be used for computers without RS232 connector.*