# **SPECIFICATIONS S2G2-800**

#### GENERAL

| Power<br>requirements<br>(automatic<br>selection) | 110/220 Vac, 48 to 63 Hz   |
|---|--|
| Housing   | Completely sealed enclosure  |
| Size  | 33 x 26 x 14 cm 4,75 Kg  |
| Weight  | 4.75 kgs Without Battery<br>5.75 Kgs with the Internal<br>battery  |
| Computer<br>interface                             | Gigabit Ethernet- 1000<br>BASE-T   |
| Compliance  | CE, Rohs   |
| Battery type                                      | Lithium-ion, rechargeable,<br>Dot compliant  |
| Battery<br>autonomy<br>interne                    | 5 Hours<br>(8 Hours with external<br>battery pack)   |
| Operating<br>temperature                          | 0° - 50°C (32 - 122° F)  |
| Inputs/Outputs                                    | <ul> <li>» RJ45 Ethernet</li> <li>» 41 Pin Probe Connector</li> <li>» 39 Pin Isolated I/O</li> <li>» 24 VDC Input</li> </ul> |

#### REMOTE FIELD EDDY CURRENT (RFEC) & NEAR-FIELD TESTING (NFT)

| Frequency range          | 20 Hz to 25 KHz   |
|--------------------------|---|
| Driving modes            | » Continuous<br>» Multiplexed<br>» Super-Multiplexed  |
| Probe drivers            | 2 fully independent   |
| Drive voltage            | 0-20 Vpp (single driver)<br>0-40 Vpp (push pull mode)   |
| Output Current           | 1 A max   |
| Probes Inputs            | 8   |
| Number of<br>frequencies | Up to 5 simultaneous  |
| Number of EC<br>channels | <ul> <li>» 40 in continuous mode</li> <li>» 128 in multiplexed mode</li> <li>» 640 in super-multiplexed<br/>mode</li> </ul> |
| A/D converters           | 24 bits   |
| Data Format              | 32 bits   |
| Data rate                | 40,000 data points/s  |

#### FLUX LEAKAGE (FLT)

#### EDDY CURRENT (ECT)

| Frequency range               | 20 Hz to 2 MHz  |
|-------------------------------|---|
| Driving modes                 | » Multiplexed Mode<br>» Continuous Mode<br>» Super Multiplexed Mode   |
| Generetors /<br>Coils drivers | 2 fully independent   |
| Drive voltage                 | <ul> <li>» 0-20 Vpp (single driver)</li> <li>» 0-40 Vpp (push pull mode)</li> </ul>   |
| Output current                | 1 A max   |
| Electronic<br>Reference       | 2 drivers for Electronic<br>balancing   |
| Probes Inputs                 | » 8<br>» 128 with multiplexer   |
| Number of<br>frequencies      | Up to 5 simultaneous  |
| Number of EC<br>channels      | <ul> <li>» 40 in continuous mode</li> <li>» 128 in multiplexed mode</li> <li>» 640 in super-multiplexed<br/>mode</li> </ul> |
| A/D converters                | 24 bits   |
| Data Format                   | 32 bits   |
| Alarms                        | 4 independent real-time<br>alarms   |
| Data rate                     | 40,000 data points/s  |

| Probe Type               | » Inductive<br>» Hall effect<br>» Magneto resistance (GMR)                  |
|--------------------------|---|
| Probes Inputs            | 8   |
| Number of EC<br>channels | <ul><li>» 40 in continuous mode</li><li>» 128 in multiplexed mode</li></ul> |
| A/D converters           | 24 bits   |
| Data Format              | 32 bits   |
| Data rate                | 40,000 data points/s  |

#### EDDY CURRENT ARRAY (ECA)

| Channels        | 64,128, 256, 512         |
|-----------------|--------------------------|
| Frequency range | 20 Hz to 2 MHz           |
| Multiplexer     | Embedded Mux             |
| Connector       | 41 Pin Probe Connector   |
| Drive voltage   | 0-20 Vpp (single driver) |
|                 |                          |

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# **CONTROLLER:** It drives motorized rotating devices for tube inspection. I/O CONNECTOR TO **CONNECT: PROBE INTERFACE MODULE:** » Encoders signals. It can be customized to meet specific » # 4 real-time Alarms Inputs requirements. » Several I/o to drive your automatic sequence. S.G.-800

### **PROBE CONNECTOR:**

A 41 Pin connector is available for all probes and for all techniques (Array, RFEC, FLT and NFT). It does not require an expensive connector for array probes.

## **DC CONNECTOR:**

The unit can run in three modes: internal battery, external battery pack and external 24 VDC power adapter.

# **OUR BEST SOLUTIONS**

Call us for your customized probes

**Bobbin Probe** for SG Tube Inspection

Eddy Current Technology (ECT) Probe for heat exchanger Tube Inspection

Remote Field Eddy Current (RFEC) Probe for Boiler Tube Inspection

**Array RFEC Probe** for Pipe Inspection

**Array Shape Probe** for Surface Inspection

The sensor array is replaceable. Different flexible array models can be used with the multiplexer.

#### EMBEDDED MUX:

The embedded multiplexer improves performance and reduces the cost of the array probe.

