



**H O N E Y W E L L**  
 SOLID STATE ELECTRONICS CENTER  
 MINNEAPOLIS, MINNESOTA 55441

**SUPPLIER DRAWING (SD)  
 SPECIFICATION**

|                       |                 |
|-----------------------|-----------------|
| Federal Cage Code No. | <b>22024844</b> |
| <b>3 4 1 6 8</b>      |                 |

**TITLE: PPTS, CE SUPPLEMENT, EN 61326-1**

| PREPARED BY <b>G. Monzo</b> DATE <b>7/18/01</b><br>ORIGINATOR                   |                                      | APPROVED BY <b>S. McMonigal</b> DATE <b>7/20/01</b><br>AFFECTED AREA APPROVER |                    | APPROVED BY <b>L. Chamas</b> DATE <b>7/19/01</b><br>SUPPLIER REVIEW BORAD APPROVAL |  |
|---|--------------------------------------|---|--------------------|--|--|
| APPROVED BY <b>T. Stratton</b> DATE <b>7/19/01</b><br>ENGINEERING AREA APPROVER |                                      |   |                    |  |  |
| REV. LTR.   | CHANGE DESCRIPTION, SHEETS REVISED   | ECN NUMBER  | ENGINEER IN CHARGE | EFFECTIVITY DATE   |  |
| Rev. -  | Initial Release                      | 01-810  | G. Monzo/kas       | 07-24-01   |  |
| A   | Clarify conditions for surge testing | 01-1494   | G. Monzo/kas       | 12-12-01   |  |

**Precision Pressure Transducer (PPT)**  
**Models PPTxxxxxxx2xx-x-Sxxx**  
**Models PPTxxxxxxx5xx-x-Sxxx**  
**CE Conformity Supplement**  
**22024844, Revision A, July 2001**

**CE CONFORMITY:** This product is in conformity with the protection requirements of the following European Council Directive: **89/336/EEC**, the EMC Directive. Conformity of this product with any other "CE Mark" Directive(s) shall not be assumed.

| Directive/Standard  | PC | Conformity   | Notes |
|---|----|--|-------|
| <b>ELECTROMAGNETIC COMPATIBILITY:</b><br>89/336/EEC, as amended by 92/31/EEC,<br>93/68/EEC and 98/13/EEC  |    |  |       |
| <b>EN 61326:1997, A1:1998</b> , Electrical Equipment for Measurement, Control and Laboratory Use, EMC Requirements  |    |  | 1     |
| <b>EMISSIONS</b>  |    |  |       |
| <b>CISPR 16-1: 1987</b> , CISPR Specification for radio interference measuring apparatus and measurement methods – Part 1: Radio disturbance and immunity measuring apparatus.<br><br><b>CISPR 16-2: 1993</b> , CISPR Specification for radio interference measuring apparatus and measurement methods – Part 2: Methods of measurement of disturbances and immunity. |    | <b>Mains</b><br>0.15 to 0.50 MHz, 66 dB (μV) to 56 dB (μV), quasi peak, 56 dB (μV) to 46 dB (μV) average. Limits decrease linearly with log of frequency<br><br>0.50 to 5 MHz, 56 dB (μV) quasi peak, 46 dB (μV) average<br><br>5 to 30 MHz, 60 dB (μV) quasi peak, 50 dB (μV) average.<br><b>Enclosure</b><br>30 to 230 MHz, 30 dB(μV/m) at 10m<br><br>230 to 1000 MHz, 37 dB(μV/m) at 10m, |       |
| <b>IMMUNITY</b>   |    |  |       |
| <b>EN 61000-4-2: 1995</b> , Part 4: Testing and measurement techniques – Section 2: Electrostatic discharge immunity test – Basic EMC publication   | B  | 4 kV Contact   |       |
| <b>EN 61000-4-3: 1996</b> , Section 3: Radiated, radio-frequency, electromagnetic field immunity test.  | A  | 3 V/m, 80 to 1000 MHz, 80% amplitude modulated, 1 kHz  | 2     |
| <b>EN 61000-4-4: 1995</b> , Section 4: Electrical fast transient/burst immunity test .  | B  | 1 kV DC power ports<br>0.5 kV I/O signal/control ports<br>5/50 Tr/Th ns, 5 kHz rep frequency   |       |
| <b>EN 61000-4-5: 1995</b> , Section 5: Surge immunity test  | B  | 0.5 kV DC power ports (line-to-line)<br>1 kV DC power ports (line-to-earth)<br>1 kV I/O signal/control ports (line-to-earth)   | 3     |

## NOTES:

**PC** = Performance Criteria

- Shielded twisted pair cabling, with 360° shield termination at connector backshell, required for conformance to the EMC directive.
- Typical EMI-related digital and analog shifts of less than 0.01% of Full Scale Reading. Maximum digital and analog shifts of 0.1% of Full Scale Reading, dependent upon factory and/or user range-down of the sensor.
- The PPT meets these surge requirements when tested with a P.S. of 12 to 22 VDC.

**EMISSIONS:** This equipment complies with the emission limits for Class B equipment as per the following reference standards found in EN 61326-1: 1997, Table 4 – *Emission limits for Class B equipment*.

- CISPR 16-1: 1987, CISPR Specification for radio interference measuring apparatus and measurement methods – Part 1: Radio disturbance and immunity measuring apparatus and CISPR 16-2: 1993,
- CISPR Specification for radio interference measuring apparatus and measurement methods – Part 2: Methods of measurement of disturbances and immunity

**IMMUNITY:** This equipment has been tested and found to comply with the limits as specified in the above table.

**Performance Criteria:** Immunity includes the tests and severity levels specified in EN 61326-1: 1997, Table 1 – *Minimum immunity test requirements*. This equipment was evaluated for “Continuous Unmonitored Operation” as specified in EN 61326-1: 1997, Table 2 – *Example of evaluation of immunity test results*. The following is a functional description and definition of product performance, during or as a consequence of the EMC testing:

#### Performance Criterion A

- ( EN 61000-4-3: 1996, RF Immunity ): During testing, normal performance within the specification limits.

#### Performance Criterion B

- ( EN 61000-4-2: 1995, EN 61000-4-4: 1995, EN 61000-4-5: 1995, ESD, Transients & Surge): During testing, temporary degradation, or loss of function or performance which is self-recovering.