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PATENTS

UK and Overseas Patents cover key aspects of the Ultraspan sensor.

MAINTENANCE

The Ultraspan sensor contains no user serviceable parts. Kittiwake Holroyd must carry out all maintenance and service on the product, otherwise the warranty may be invalidated. Kittiwake Holroyd cannot accept any liability whatsoever for any loss or damage caused by service or maintenance by unauthorised personnel.

CONTINUOUS IMPROVEMENT

Kittiwake Holroyd has a policy of continuous product improvement. We welcome suggestions as to how any of our products (including software and handbooks) can be improved. Please take the time to phone, fax, write or email us if you have any suggestions.

SPARES & CALIBRATION

Available from either your Kittiwake Holroyd appointed supplier or direct from:-

Kittiwake Holroyd
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Matlock
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United Kingdom
DE4 2AJ

Tel : +44 (0)1629 822060

Fax : +44 (0)1629 823516

Email : sales@kittiwakeholroyd.com

The *Ultraspan* sensor is expected to give accurate measurements over a long period of time. Due to the robust design of the sensor it is not usual for the sensitivity to significantly change with prolonged use (provided it is operated within its temperature specification). If a fault occurs in *Ultraspan* sensor or its cabling it would most likely cause a dramatic change in sensitivity (e.g. stop working altogether or produce a very low or very high output signal).

Should the need arise the *Ultraspan* sensor can be disconnected and sent back for re-calibration. Where the sensor is permanently bonded onto the machine this may not be an easy task. However where the sensor is bonded to a removable waveguide this may be a practical proposition.

ELECTROMAGNETIC COMPATIBILITY

The *Ultraspan* sensor conforms to the EC Directive on Electromagnetic Compatibility (EMC) and has been tested to the generic standards:

EN61000-4-2:1995 (ESD),

EN61000-4-3:2002 + A1:2002 (Radio frequency EM field)

EN61000-4-8:1993 (Power frequency magnetic field)

EN55022:1998 (Radiated Emissions).

Hence for normal use on the industrial shop-floor the *Ultraspan* sensor will not interfere with adjacent electrical equipment and its own readings will be unaffected by interference






from the machinery it is intended to monitor. To achieve EMC compliance the *Ultraspan* sensor must be powered from an approved CE marked power supply compliant with EN61000-6-2, EN61000-4-5.

However the variety of electromagnetic environments encountered within industry is such that it is possible that on rare occasions operating machinery may temporarily interfere with the readings on the *Ultraspan* sensor (e.g. welding equipment, automotive ignition systems etc.). To check whether or not this is the case simply switch on the *Ultraspan* sensor with the sensor dangling in air nearby the intended measurement point. The analogue outputs should fall to near 0 VDC. If they do not then we recommend caution in the interpretation of readings for that particular machine.

WARRANTY

The warranty (for the period specified at the time of purchase) is inclusive of all parts and labour costs subject to the exclusions listed. The decision to repair or replace defective product will be at the discretion of Kittiwake Holroyd.

The warranty shall not cover or apply to defects or damage resulting from:

-  Unauthorised modification or misuse
-  Operation outside the environmental specification
-  Fair wear and tear
-  Accidental damage
-  Cost of shipping back to base

In no event will Kittiwake Holroyd or its suppliers be liable to you for any consequential or incidental damages including any lost profits or lost savings or for any claim by any party.