

## Harsh Environment Range (HE)

Norbar has developed a range of measurement and calibration equipment that has been tested to conform with EN 60529: 1992.

Rated to IP65/IP67 the products are aimed specifically for use in harsh environments.

Particularly suited for use in the Offshore and Power Generation industries, the combination of high quality components, sound design and many years field experience allow calibration and control in previously restrictive areas.

The IP65/IP67 rating gives the product protection against dust ingress, pressurised water jet and complete water immersion to a 1 metre depth for a 30 minute period.

The HE range provides a fully traceable system to National calibration standards through Norbar's own UKAS accredited laboratory.

## Features

- IP65/67 rated.
- Stainless steel transducer design with 'SMART' intelligence.
- Bi-Direction calibration for both instrument and transducer.
- Class 1 accuracy over the 'Primary' classification range ( $\pm 0.5\%$  of reading from 20 to 100% of full scale).
- Battery power for use in harsh environments (mains supply for charging).
- Continuous RS-232 output.
- Analogue output.
- Limit indication for up to 8 user defined target values.
- Supplied in a water tight carry case.

## HE Transducers

Part No.	Description
50736.xxx	500 N.m Static Transducer 3/4" M/F sq. dr.
50737.xxx	500 lbf.ft Static Transducer 3/4" M/F sq. dr.
50738.xxx	1000 N.m Static Transducer 1" M/F sq. dr.
50739.xxx	1000 lbf.ft Static Transducer 1" M/F sq. dr.
50787.xxx	3000 N.m Static Transducer 1 1/2" M/F sq. dr.
50751.xxx	3000 N.m Static Transducer 1 1/2" M/M sq. dr.
50705.xxx	5000 N.m Static Transducer 1 1/2" M/F sq. dr.
50729.xxx	5000 N.m Static Transducer 1 1/2" M/M sq. dr.
50706.xxx	5000 lbf.ft Static Transducer 1 1/2" M/F sq. dr.
50730.xxx	5000 lbf.ft Static Transducer 1 1/2" M/M sq. dr.
50728.xxx	10000 N.m Static Transducer 2 1/2" M/F sq. dr.
50788.xxx	10000 N.m Static Transducer 2 1/2" M/2" M sq. dr.
50789.xxx	15000 N.m Static Transducer 2 1/2" M/2 3/8" M sq. dr.
50726.xxx	25000 N.m Static Transducer 3 1/2" M/M sq. dr.
50727.xxx	40000 N.m Static Transducer 3 1/2" M/M sq. dr.
50744.xxx	100000 N.m Static Transducer 3 1/2" M/M sq. dr.
50743.xxx	100000 lbf.ft Static Transducer 3 1/2" M/M sq. dr.
50767.xxx	1000 N.m Annular Transducer
50745.xxx	3500 N.m Annular Transducer
50725.xxx	10000 N.m Annular Transducer
50732.xxx	50000 N.m Annular Transducer

Other Transducers available on request.



Harsh Environment Instrument in water tight carry case.



Back panel. Two connector covers removed for illustration.



5000 N.m Static Transducer

## HE Instrument and Ancillaries

Part No.	Description
43217	TTL-HE instrument
60245.200	HE transducer Lead
60250.200	HE Inst to Standard Smart Static TD Lead
60263.200	HE Inst to Standard Smart Rotary TD Lead
60266.200	HE Transducer to TTTT/TST Lead
60256.200	Serial Data Lead for TTL-HE to no connector
60261.200	Serial Data Lead for TTL-HE
60257.200	Ancillaries output lead for TTL-HE to no connector