

ATEX APPROVED DIGITAL THERMOMETER TYPE ATI200IS

The ATI200IS Digital Thermometer is an intrinsically safe instrument designed for precise monitoring of temperature within explosive hazardous areas. The rugged design metal housing contained within the quality leather case gives long term protection for use in severe industrial environmental applications. The ATI200IS Thermometer incorporates unique features that ensure precision measurements over the ranges -199.9°C to +199.9 and 0 to +199.9°F both with 0.1 degree resolution. The instrument is calibrated for use with 4 wire C&V configured platinum resistance probes conforming to BS EN60751:1996. Allowed probe manufacturing zero degree errors are eliminated by the instrument setup facilities that allow any AWR supplied probes to be interchanged without loss of accuracy.

APPLICATIONS

The ATI200IS is designed for use with a range of probes used in the Chemical Gas, Petroleum & Pharmaceutical Zone 0 areas where precision and repeatable readings are essential. A wide ranging list of accessories ensure a safe and universal use of the thermometer for:-

CHEMICAL: Process control verification.

GAS: Fiscal metering unit calibration.

PETROLEUM: Distribution volume control for loss accounting in road/rail cars, storage tanks, ocean tankers & barges.

OFFSHORE RIGS: Pycnometer sample units and fiscal metering skid calibrations.

PHARMACEUTICAL: LNG level equipment & product instrumentation calibrations.

A Test Set package is available with UKAS certification for traceable to national standards site calibrations.



FEATURES

INTRINSICALLY SAFE

Ex II 1G EEx ia IIC T5

PORTABLE HAND HELD

-199.9°C TO +199.9°C

or

0°F TO +199.9°F
(Factory order)

0.1° ACCURACY

RUGGED DESIGN

5 YEAR WARRANTY

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Temperature Sensor:	Rtd element Pt100 ohms/0°C 4wire C&V BS EN60751:1996 Grade A or 1/10 th Din.
Lead Resistance:	100 ohm max.
Measuring Range:	-199.9°C to +199.9°C or (*0°F to +199.9°F Factory Order)
Linearisation:	Over range within 0.1°C / *0.2°F
Overall Accuracy:	±1 LSD
Resolution:	0.1°C / (*0.1°F Factory Order)
Ambient Temperature Range:	-10°C to +50°C working/storage
Temperature Coefficient:	± 0.001 % /°C typical over -10°C to +50°C
Display:	L.C.D 3 ½ digit 0.4" high.
Over-Range/Open Circuit Input:	+1 display indication
Short Circuit Input:	±1 display indication.
Low Battery Indication:	Batt/Lo batt display.
Display Update:	3 per second.
Supply:	9v disposable PP3 carbon battery.
Connections:	Plug / socket mil specification.
Dimensions with leather case:	160 x 91 x 41 mm
Weight:	1 Kg
Accessories Portable applications:	ARP200/25SR cable reel probes with slip rings for dipping storage tanks to 25m. ADL100/1.5FX St/St flexible lances for road/rail tankers. ASP100 surface temperature probes. ATI/MP calibrated instrument prover. Special applications designed probes.
Accessories Fixed applications:	Suspended tank manlid multiple probes & tankside thermowell probes for switched storage tank systems.
Accessories Calibration applications:	ACP100 series UKAS calibrated probes
EMC compliance:	EN50081-1,EN50082-1.
Intrinsic safety:	EExialICT5 (Baseefa 04 ATEX 0030)