To buy, sell, rent or trade-in this product please click on the link below: http://www.avionteq.com/Druck-GE-Sensing-ADTS-505-Air-Data-Test-Set.aspx

# GE Sensing

# AvionTEq

#### www.avionteq.com

# Features

- High accuracy—RVSM compliant
- Fully automatic control
- Rugged flightline construction
- Wide-ranging aircraft compatibility
- Integral pneumatic supplies
- Protection for aircraft instruments

GE is the foremost supplier of Air Data Test Sets and Systems, with over 25 years of experience in the design and manufacture of advanced pressure measuring instruments and sensors.

The ADTS 505 is the latest in a series of reliable, compact and high accuracy Air Data Test Sets. This flightline design has evolved as a result of GE's continuous research and development, customer feedback and experience gained from manufacturing thousands of automatic pressure controllers. This has enabled performance, ease of maintenance, and operational simplicity to be optimized.

# ADTS 505 Druck Air Data Test Set

ADTS 505 is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Sensing.





# High Accuracy

Compliant with RVSM (Reduced Vertical Separation Minima) requirements, the ADTS 505 is a precision twin-channel Ps and Pt pressure control test set for the accurate calibration/verification of civil aircraft pitot statics.

It utilizes advanced micro-machined, piezo-resistive and resonant silicon sensors, developed by GE specifically for high accuracy measurement applications. This technology provides excellent thermal and long term stability.

Suitable for use with a wide range of fixed or rotary wing civil aircraft, the ADTS 505 enables vital flight instrumentation such as Altimeters, Airspeed Indicators, Rate of Climb Indicators, Mach Meters and Air Data Computers to be quickly and accurately tested on the flightline.

# User Friendly

The sophisticated, yet user-friendly display is fully programmable for a range of test requirements. It can be configured, with limits and preferred units of measurement, for individual aircraft types. The level of information displayed can be determined by the operator to suit the particular task at hand.

# Advanced Functions

In addition to the standard pitot-static functions of the ADTS 505, there are many additional advanced features which include automatic go-to-ground, leak test mode and device under test protection limits amongst others. This enables the operator to undertake flightline testing accurately and efficiently, without compromising safety standards.

# Cost Effective

Highly portable, quick and easy to use, the ADTS 505 is also designed for low maintenance, with a recommended 12 month recalibration interval. Operational productivity is optimized and aircraft downtime is minimized.

# Fully Automatic Control

The ADTS 505 has fully automatic control by means of the menu-driven high contrast, electro-luminescent display and tactile membrane keypad. The desired altitude, airspeed or rate of climb can be input, and the ADTS 505 will automatically generate and continuously maintain the desired value.

A choice of units is provided for Altitude, Airspeed, Rate of Climb, Engine Pressure Ratio and other related test functions. Control and measurement is available for these parameters as well as Static, Pitot and Calibrated Airspeed.

# **Testing With Confidence**

Protection for the aircraft instruments under test includes a power failure protection feature, which, in the event of an interruption to the electrical supply, locks the pneumatic system and allows safe restoration to ambient ground conditions.

The ADTS 505 will operate with leaking systems, which in practice can often occur. The required aim value is maintained, enabling the test to be completed.

# Easy Flightline Operation

The self-contained ADTS 505 simplifies accurate and RVSM compliant pitot-static testing for a wide range of civil aircraft. Featuring a highly compact and lightweight yet rugged construction, it enables single-handed portability for convenient use on the flightline.

# Integral Pneumatic Supplies

Matched pressure and vacuum pumps are included within the ABS case, which also provides storage for the pneumatic test hoses supplied with AN4 aircraft connections. The ADTS 505 is conveniently powered from any aircraft or national single phase supply, with no user switching required.

Weighing just 15 kg (33 lb), the compact ADTS 505 offers a convenient yet high performance solution for responding quickly to pitot static and pressure related Air Data Test requirements on the flightline.

# ADTS 505 Specification

Parameter	Operating	Resolution	Accuracy	Repeatability		
	range					
Altitude	-609 to 18288 m <sup>(1)</sup>	0.30 m	0.91 m (3 ft) at	±0.30 m (±1 ft)		
	(-2,000 to 60,000 ft)	(1 ft)	seal level <sup>(2)</sup>			
			2.13 m at 9144 m <sup>(2)</sup>	±0.60 m (±2 ft)		
			(7 ft at 30,000 ft)			
			8.83 m at 18288 m <sup>(2)</sup>	±1.82 m (±7 ft)		
			(29 ft at 60,000 ft)			
Static	35 <sup>(3)</sup> to 1355	0.01 mbar	±0.1 mbar	±0.05 mbar		
Sensor	mbar abs	(0.000 inHg)	(±0.003 inHg)	(±0.0015 inHg)		
	(1 to 40 inHg)					
Airspeed	20 to 650 knots <sup>(4)</sup>	0.1 kts	±0.5 kts at 50 kts	±0.4 kts		
Airspeed	0 to 2500 mbar	0.01 mbar	±0.1% reading	0.05 mbar		
(Qc)	diff (1 to 74 inHg)	(0.0001 inHg)	±0.125 mbar	rising to		
				0.17 mbar		
Rate	0 to 1829 m/min <sup>(5)</sup>	0.30 m/min	±2% of value	±0.5%		
of Climb	(0 to 6000 ft/min)	(1 ft/min)		(measurement)		
Mach	0.6 to 2.8	0.001	Better than 0.005	0.001 rising		
				to 0.005		
Engine	0.1 to 10	0.001	Better than 0.005			
Pressure						
Ration						
(EPR)						
1 105 000 ft (7300/ m) a vailable (magazy va nada)						

1. 105,000 ft (32004 m) available (measure mode).

2. Accuracy at ambient 5°C to 35°C (41°F to 95°F) for 0°C to 50°C (32°F to 122°F)  $\times$  1.5

3. 35 mbar (1 inHg) lowest calibration point. (Will measure below this value.)

4. Limits settable to prevent excessive Mach. (Civil limit Mach 1).

5. To 9144 m (30,000 ft) into 4 litres. Higher altitudes at lower rates available.

The ADTS 505 is housed in a rugged weatherproof case, complete with internal pneumatic pumps for pressure and vacuum generation. Automatic control is implemented by simple menu instruction and keypress at the front panel.

#### **Scaling Factors**

- Altitude: ft, meters
- Airspeed: knots, km/hr, mph
- Rate of Climb: ft/min, m/min, m/s, hm/s
- Others: mbar, inHg, inH<sub>2</sub>O, mmHg, kPa, hPa, psi

#### Rate Control/Indication

- Roc: Rate of Climb
- Rt Ps: Rate of Static
- Rt Pt: Rate of Pitot
- Rt Qc: Rate of Pt–Ps
- Rt CAS: Rate of calibrated airspeed
- Rt EPR: Rate of engine pressure ratio

#### Overpressure

Negligible calibration change with up to 1.25 x full scale (FS) overload applied.

#### **Calibration Stability**

Better than 0.005% (Ps) and 0.08% (Qc) FS per annum.

#### Recalibration

Simple keypad instruction. 12 month interval suggested. Use of primary standard pressure reference (e.g. Ruska Primary Pitot Static Tester model 2468) is recommended.

#### Display

Large area, 1/4 VGA, high contrast, electro-luminescent display. 96 mm x 73 mm (3.7 in x 2.8 in), 320 x 240 pixels.

#### Response

Two readings-per-second display value update.

#### **Power Supplies**

- 90 to 132 VAC at 47 to -440 Hz, 180 to 265 VAC at 47 to 66Hz auto-selection
- Rating 200 VA

**Power Failure Protection** 

#### System locks, and a manual let-down feature is provided.

#### Self Test

Integral test routines and reporting for both electrical and pneumatic systems.

#### **Temperature Range**

- Calibrated: 5°C to 35°C (41°F to 95°F)
- Operating: 0°C to 50°C (32°F to 122°F)
- Storage: -20°C to 70°C (-4°F to 158°F)

#### Sealing

Weatherproof in operating mode (lid removed).

#### Humidity

0 to 95% non-condensing. "Tropicalized" specification.

#### Shock/Vibration

Designed to meet MIL-T-28800 Class 2.

#### Conformity

EN61010, EN61326. CE marked.

#### Physical

- Weight 15 kg (33 lb) nominal
- Dimensions (including lid): 265 mm x 520 mm x 355 mm (10.4 in x 20.5 in x 14 in)

#### Case

ABS moulded case with removable lid and storage for accessories.

#### **Pneumatic Connections**

AN4 for Ps and Pt, both color-coded.

Supplied with mating (approximately) 2 m (6 ft) long flexible hoses with AN4 fittings at one end.

#### **Pneumatic Supplies**

Integral pressure and vacuum pumps capable of generating the following supply rates:

- 1829 m/min (6000 ft/min) into a 4 litre volume at 9144 m (30,000 ft)
- 300 knots/min into a 2 litre volume at 650 knots
- Water/moisture content is vented automatically.

### Accessories

AC power lead—2 m (6 ft) length approximately. Ps and Pt hoses—2 m (6 ft) lengths approximately. Operators manual and calibration certificate also supplied as standard.

# Calibration Standards

Instruments manufactured by GE are calibrated against precision calibration equipment traceable to international standards.

# Ordering Information

Please state the following:1. ADTS 5052. Any special requirements3. Supporting Services (order as separate items)

## Supporting Services

GE sensing provides Services to enhance, support and complement the Aviation GSE range. Our highly trained staff can support you, no matter where you are in the world. Further details can be found in www.gesensing.com/productservices/service.htm

#### Pressure measurement training

GE Sensing's training and education program offers comprehensive standard and customized curricula focusing on operation, application, maintenance and technology.

Quality training enables your engineers & technicians to optimize your business' performance.

#### Nationally accredited calibration

New product is supplied with factory calibration certificates with measurements traceable back to international standards. For applications where initial nationally accredited calibration certificates are required or periodic re-calibration is desired GE sensing can provide the solution.

#### Extended warranty terms

New product is supplied with an industry benchmarked initial warranty. For peace of mind particularly if final installation is months away from your product purchase, extend coverage on your equipment beyond the initial period up to 4 years term.

- Improved cost predictability
- Increased assurance

**Multi-year calibration and repair services agreements** Multi-year service agreements increase cost predictability by providing fixed rates for extended periods.



#### Rental

GE's rental program offers a simple, quick and affordable solution for unexpected measurement need. Rentals allow customers to be fully operational when challenges that are not foreseen arise. We can provide measurement, test and calibration instruments, from simple pressure indicators to sophisticated air data test systems. The rental fleet is available from inventory, Factory tested & calibrated with a minimum rental period only 1 week. With larger scope undertakings any product can be made available for rental.

#### Maintenance

Should your equipment need maintenance our global repair facilities are happy to serve. Work is conducted by trained approved technicians, using controlled original equipment parts and procedures so restoring the product to design condition. This is particularly important with Intrinsically Safe products operated in hazardous environments and aviation ground support equipment





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#### www.gesensing.com

GE Sensing & Inspection Technologies

# ADTS 403

# Druck Air Data Test System



GE is the foremost supplier of air data test systems, with over 25 years of experience in the design and manufacture of advanced pressure measuring instruments and sensors.

The ADTS 403 is the latest in a series of reliable, high accuracy, air data test systems designed for the civil aviation industry. A military qualified version of this instrument is also available, the ADTS 401 (see ADTS 401 data sheet). The compact, rack-mount design has evolved as a result of GE's continuous research and development, customer feedback and experience gained from manufacturing thousands of automatic pressure controllers. This has enabled performance, ease of maintenance and operational simplicity to be optimized.

## Features

- High accuracy, RVSM compliant
- ATE systems compatible
- Protection for unit under test
- Compatible with existing IEEE systems
- 12 month recalibration period
- Programmable test routines and limits



The ADTS 403 is a twin-channel Ps and Pt pressure control system used for the precision calibration/ verification of aircraft pitot-statics, compliant with reduced vertical separation minima (RVSM) requirements. A separate pressure/vacuum supply unit type PV 103 provides suitable pneumatic supplies.

Fully programmable for a wide range of fixed or rotary wing aircraft, the ADTS 403 enables vital flight instrumentation, such as altimeters, airspeed indicators, rate of climb indicators, Mach meters and air data computers to be quickly and accurately tested.

The ADTS 403 has been designed for 483 mm (19 in) rack mounting and being only 178 mm (7 in) (4U) high with a range of IEEE 488 interfaces available it is ideal for use with existing automatic test equipmen (ATE) systems. In addition to automated and local keypad control, a remote hand terminal option is also available for even greater flexibility of operation.

# **Control Key Function**

#### ALT/Ps Altitude read and value entry.

**Speed/QC** Airspeed read and value entry.

#### Mach/Pt Mach read and value entry.

#### **EPR**

Engine Pressure Ratio test (Ps/Pt for inlet/exhaust).

#### **RoC/Ps Rate**

Rate of climb, rate of speed entry and timing display.

#### **Rate Timer**

Select timing for RoC testing or leak testing.

#### Hold

Freeze control value to 'on state' at current conditions.

#### Rate

Rate control for Pt channel.

#### **Help** On-screen operator advice.

#### Leak Measure/Control

Select Measure or Control Mode.

#### Ground

Controlled vent to ground and read QFE/QNH.

#### Local/Remote

Keypad control or ATE/IEEE 488.

#### Port

Select multi-outputs on Ps and Pt if Line Switching Unit (LSU) is in use.

#### Print

Print displayed values if printer connected.

#### **Execute Test**

Manual stepping when in-built.

#### Program

The test program manager option is available.

#### Set Up

Select units, limits, local conditions, display format, etc.

# ADTS 405 Specifications

Parameter	Operating Range	Resolution	Accuracy	Repeatability
Altitude	-914 m to 2 4,384 m <sup>(1)</sup> (-3,000 ft to 80,000 ft)	0.3 m (1 ft)	0.9 m (3 ft) at sea level <sup>(2)</sup> 2.1 m at 9144 m <sup>(2)</sup> (7 ft at 30,000 ft) 9 m at 18,288 m <sup>(2)</sup> (29 ft at 60,000 ft)	±0.3 m (±1 ft) ±0.6 m (±2 ft) ±2.1 m (±7 ft)
Static Sensor	35 <sup>(3)</sup> to1 to 1355 mbar (1 to 40 inHg) absolute	0.01 mbar (0.0001 inHg)	±0.1 mbar (0.0003 inHg)	±0.05 mbar (±0.0015 inHg)
Airspeed	10 to 1,000 knots	0.1 kts 0.1 kts	±0.5 kts at 50 kts ±0.07 kts at 550 kts ±0.05 kts at 1,000 kts	±0.4 kts ±0.02 kts ±0.02 kts
Pitot Sensor	35(3) to 3500 mbar (1 to 103 inHg) absolute	0.01 mbar (0.0001 inHg)	0.01 FS	0.05 mbar rising to 0.17 mbar (0.0015 inHg rising to 0.005 inHg)
Rate of Climb	(0 to 1829 m/ minute(5) (0 to 6000 ft/ minute)	0.3 m/ minute (1 ft/minute)	±1% of value	±0.5%
Match	0.6 to 10	0.001	Better than 0.005	0.001 rising to 0.005
Engine Pressure Ration (EPR)	0.1 to 10	0.001	Better than 0.005	

(1) 32,004 m (105,000 ft) available (control with suitable vacuum pump).

(2) Accuracy at ambient 5°C to 35°C (41°F to 95°F) for 0°C to +50°C (32°F to 122°F)  $\times$  1.5

- (3) Lowest calibration point, operates to 0 mbar (0 psi) a
- (4) Limits settable to prevent excessive mach. (Civil limit Mach 1).
- (5) 30,480 m/minute (100,000 ft/minute) rates selectable
  - limit protected for safety
  - volume dependent

The ADTS 403 is a 483 mm (19 in) rack mounted instrument with a local front panel display and keypad. A remote hand held terminal is optional and a matched separate pressure/ vacuum supply unit PV 103R is available.

#### **Scaling Factors**

- Altitude: ft, meters
- Airspeed: knots, km/hr, mph
- Rate of Climb: ft/min, m/min, m/sec, hm/min
- Others: mbar, inHg, inH2O (4°C, 20°C, 60°F), mmHg, kPa, hPa, psi
- Airspeed: CAS (calibrated), TAS (true\_ability to enter temperature)

#### **Rate Control/Indication**

- Roc: Rate of Climb
- Rt Ps: Rate of Static
- Rt Pt: Rate of Pitot
- Rt Qc: Rate of Pt-Ps
- Rt CAS: Rate of calibrated airspeed
- Rt EPR: Rate of engine pressure ratio

#### Overpressure

Negligible calibration change with up to  $1.25 \times full$  scale (FS) overload applied.

#### **Calibration Stability**

Better than 50 ppm per annum.

#### Recalibration

Simple keypad instruction. 12 month interval suggested. Use of a primary pressure standard is recommended, Ruska primary pitot static tester Model 2468.

#### Display

- LCD backlit, supertwist/wide angle viewing.
- 4.8 in x 1.6 in (122 mm x 41 mm) window with four lines of 20 characters 8 mm (0.3 in) high. Optional hand terminal display window 73 mm x 24 mm (2.87 in x 0.95 in).

#### Response

- Two readings per second display value update
- Five readings per second interface and control system updates.

#### **Power Supplies**

90 to 126 VAC at 47 to 440 Hz, 207 to 260 VAC at 47 to 63 Hz. 200 VA maximum.

#### **Power Failure Protection**

In the event of a power interruption, the output ports will be vented to ambient conditions safely. On power reconnect, the system is in measure mode.

#### Self Test

Integral test routines and reporting for both electrical and pneumatic systems.

#### **Digital Interfaces**

Parallel printer interface available as standard. IEEE-488.2 and earlier versions also available in excess of those detailed. Please refer to GE.

#### **Temperature Range**

- Calibrated: 5°C to 35°C (41°F to 95°F)
- Operating: 0°C to 50°C (32°F to 122°F)
- Storage: -20° to 81°C (-4° to 178°F)

#### Sealing

Front panel dustproof. Enclosure complies with CE safety requirements.

#### Humidity

0% to 90% non-condensing

#### **Shock and Vibration**

Designed to meet section 8, EN61010.

#### **Safety Performance**

- EN61326 for EMC emissions and immunity.
- EN61010 for electrical and mechanical safety.

#### Physical

- Weight: 13 kg (29 lb) nominal
- Case dimensions: 483 mm x 432 mm x 178 mm (19 in x 17 in x 7 in)

#### **Pneumatic Connections**

Front and rear panel mounted fittings with blanking caps:

- Static: AN-6 37° flare
- Pitot: AN-4 37° flare

Rear panel mounted fittings with blanking caps:

- Pressure supply: AN-4 37° flare
- Vacuum supply: AN-6 37° flare

All fittings are supplied with replaceable filters and 2.5 m (8 ft) long mating hoses. Rear Ps and Pt connections available as an option.

#### **Pneumatic Supplies**

For normal use, dry, non-corrosive gases with source pressure at a maximum 25% above specified pressure range. PV 103R recommended.

# Options

#### (A) Remote Control Terminal

A remote control hand-held terminal complete with approximately 2 m (6 ft) long cable.

#### (B) Bench Case

A case to enclose the instrument for benchtop use.

#### (C1) IEEE-488 Interface (SCPI version) Current air data test systems communications

protocol.

# (C2) IEEE-488 Interface (Honeywell Sperry compatible)

Compatible with earlier instruments.

#### (C3) IEEE-488 Interface (Ruska 6610 compatible)

Compatible with earlier instruments.

#### (D) Test Program Manager

A software package with serial interface mode adaptor. Permits PC based control and program download for resident test routines. Please refer to product note for further details.

#### (E) Altimeter Encoder Interface

For altimeters with ICAO reporting encoders. Permits display of the bit stream and reporting of altitude value.

#### (F) ARINC 429 Interface

Permits the ADTS to monitor data from an aircraft bus, display the 12 pitot static label information and transmit to the aircraft. Please refer to product note for further details.

# Accessories

AC power lead—2 m length (6 ft approximately. Ps, Pt, pressure and vacuum hoses—2.5 m lengths (8 ft) approximately. Operator's manual and calibration certificate also supplied as standard.

# **Calibration Standards**

Instruments manufactured by GE are calibrated against precision calibration equipment traceable to international standards.

# Ordering Information

Please state the following (where applicable):

- 1. Basic model number ADTS 403
- 2. Options and related products if required.
- 3. Supporting Services (order as separate items)

# Supporting Services

GE Sensing providesservices to enhance, support and complement the Aviation GSE range. Our highly trained staff can support you, no matter where you are in the world. Further details can be found in www. gesensing.com/productservices/service.htm

#### Pressure measurement training

GE Sensing's training and education program offers comprehensive standard and customized curricula focusing on operation, application, maintenance and technology. Quality training enables your engineers & technicians to optimize your business' performance.

#### Nationally accredited calibration

New product is supplied with factory calibration certificates with measurements traceable back to international standards. For applications where initial nationally accredited calibration certificates are required or periodic re-calibration is desired, GE Sensing can provide the solution.

#### **Extended warranty terms**

New product is supplied with an industry benchmarked initial warranty. For peace of mind, particularly if final installation is months away from your product purchase, extend coverage on your equipment beyond the initial period up to 4 years term.

- Improved cost predictability
- Increased assurance

# Multi-year calibration and repair services agreements

Multi-year service agreements increase cost predictability by providing fixed rates for extended periods.

#### Rental

GE's rental program offers a simple, quick and affordable solution for unexpected measurement need. Rentals allow customers to be fully operational when challenges that are not foreseen arise. We can provide measurement, test and calibration instruments, from simple pressure indicators to sophisticated air data test systems. The rental fleet is available from inventory, Factory tested & calibrated with a minimum rental period only 1 week. With larger scope undertakings any product can be made available for rental.

#### Maintenance

Should your equipment need maintenance, our global repair facilities are happy to serve. Work is conducted by trained approved technicians, using controlled original equipment parts and procedures so restoring the product to design condition. This is particularly important with Intrinsically Safe products operated in hazardous environments and aviation ground support equipment.



# www.gesensinginspection.com

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# Features

- Accuracy: ±0.004 inHg (±0.15 mbar) absolute
- Ranges to 103 inHg (3.5 bar) absolute
- Six digit resolution LCD display
- Multiple pressure scales and aeronautical units
- Alkaline or rechargeable batteries
- Lightweight hand-held rugged design
- RS232 output

The DPI 740 is a portable battery powered precision barometer, providing outstanding capabilities in a hand held package. The fundamental sensor technology employed within this instrument is the Druck resonant pressure transducer (RPT). This vibrating element sensor not only provides accuracies of  $\pm 0.004$  inHg ( $\pm 0.15$  mbar) but equally important has a calibration stability of better than 100 ppm per year. The DPI 740 is widely used in laboratory and remote field applications for precision pressure reference.

# DPI 740

# Druck Portable Precision Barometer

DPI 740 is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Sensing.





# DPI 740 Specifications

## Pressure Measurement

#### **Operating Ranges**

- 22 to 34 inHg (750 to 1150 mbar) absolute
- 1 to 38 inHg (35 to 1310 mbar) absolute
- 1 to 77 InHg (35 to 2620 mbar) absolute
- 1 to 103 inHg (35 to 3500 mbar) absolute

#### Maximum Safe Working Pressure

130 inHg (4375 mbar) absolute

#### **Pressure Media**

- Compatible with non-corrosive gases
- Insensitive to media density

#### **Readout and Display**

999999 capability LCD digits 0.54 in (13.6 mm) high with additional 16 text characters.

#### **Display Overload**

Instrument capable of nominal 110% full scale (FS) for each range. Above this, error code will flash.

#### Resolution

0.0003 inHg (0.01 mbar)

#### Response

2 readings per second nominal on digital display

#### **Operating Modes**

A) Local pressure (QFE)B) Sea level pressure (QFF) from user set heightC) Altitude above user set datum

#### **Process Features**

Maximum/Minimum, tare and programmable filter available in all operating modes.

#### **Pressure Units**

24 pressure units plus altitude in feet (ft) or meters (m)

## Performance

## Accuracy

±0.02% FS

For all pressure ranges includes: Combined non-linearity, hysteresis, repeatability, and temperature effects over 15°F to 120°F (-10°C to 50°C).

Optional enhanced barometric accuracy available (see Option A).

#### Stability

Better than 100 ppm per annum.

#### **Temperature Range**

- Operating: 15°F to 120°F (-10°C to 50°C)
- Storage: -40°F to 160°F (-40°C to 70°C)

#### Safety

- Electrical and mechanical safety: EN61010
- EMC emissions: EN50081-1
- EMC immunity: EN50082-1
- Certification: CE Marked

#### **Position Effect**

Negligible

#### **Power Supply**

Three each 1.5 V alkaline AA batteries for 20 hours nominal continuous operation. Programmable power down prolongs battery life. Battery low indicated by display symbol. Optional rechargeable NiCad batteries and external power adapter/charger unit available (see Option B).

#### **Communication Interface**

RS232 via six-way LEMO socket (see Option C)

### Physical

#### **Pressure Connection**

Accepts 1/4 in OD / 5/32 in ID tubing (6 mm OD / 4 mm ID)

#### Weight

1.1 lb (0.5 kg) nominal

#### Dimensions

7.5 in  $\times$  3.5 in  $\times$  1.4 in (190 mm  $\times$  90 mm  $\times$  36 mm) nominal

# DPI 740 Specifications

# Options

 (A) Enhanced Barometric Accuracy Version
An improved accuracy to ±0.004 inHg (±0.15 mbar) can be provided over 50°F to 86°F (10°C to 30°C).

#### (B) Rechargeable Batteries

NiMh batteries and external universal recharger unit can be supplied to replace the standard alkaline batteries.

#### (C) Adapter Lead

For RS232 output, an adapter lead connecting six-pin LEMO to standard nine-way D type socket is available.

#### (D) Rigid Transit Case

For storage of instrument, accessories and options.

# Supplied As Standard

Handbook, calibration certificate and fabric carrying case supplied.

# Calibration Standards

Instruments manufactured by GE are calibrated against precision pressure calibration equipment which is traceable to International Standards.

## **Related Products**

Druck manufactures a comprehensive range of pressure indicators, controllers, dead weight testers, calibrators, transducers and transmitters. The range of portable calibrators also covers temperature and electrical parameters. Please refer to Druck for further information and data sheets.

# Ordering Information

Please state the following:

- (1) Type number DPI 740
- (2) Pressure range
- (3) Options
- (4) Supporting Services (order as separate items)

## Supporting Services

GE Sensing provides Services to enhance, support and complement the product range. We can provide training, nationally accredited calibration - both initially and at periodic intervals - extended warrantee terms, maintenance and rental of portable or laboratory calibrators. Further details can be found in www.gesensing.com/productservices/service.htm







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