

Digital pressure gauge

Reference series HTE2



Operating manual (English)

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About this operating manual 0

- The operating manual is aimed at specialists and semi-skilled personnel.
- Before each step, read through the relevant advice carefully and keep to the specified order.
- Thoroughly read and understand the information in the section "Safety instructions".

If you have any problems or questions, please contact your supplier or contact us directly at:



1 Central Park Lenton Lane Nottingham NG7 2NR United Kingdom Tel: +44 (0) 115 900 3550

Fax: +44 (0) 115 986 8875 Email: sales@hydrotechnik.co.uk Web: www.hydrotechnik.co.uk

Hazard signs and other symbols used:



WARNING! / CAUTION! Risk of injury!

This sign indicates dangers that cause person al in juries that can lead to health defects or cause considerable damage to property.



CAUTION! Risk of injury in the case of excessive pressure!

This sign indicates dangers which could arise from excessive pressure in a piece of equipment



CAUTION! Material damage!

This sign indicates actions which could lead to possible dam age to material or environmental damage.



ADHERE TO OPERATING MANUAL!



NOTICE!
This symbol indicates important notices,



NO DOMESTIC WASTE!

The device must not be disposed of Together with domestic waste.



Pay attention to and comply with information that is marked with this symbol.

Follow the specified instructions and steps. Adhere to the given order.

Check the specified points or notices.

Reference to another section, document or source.

Item

1 Device description

The references HTE2 are digital manometers with actual value and MIN/MAX displays. They are used to measure stationary and mobile pressures.

They have a rugged housing made of cast zinc with a rubber protection cap. The electronics unit, the $4\frac{1}{2}$ -digit LCD digital display, the control panel and the replaceable batteries are housed inside the device.

The references have accuracies of ±0.5% for HTE2 relative to the corresponding full-scale reading (FS).

Used as a pressure reference, they provide an easy way of checking, adjusting and calibrating other items of pressure measuring equipment.

Versions:

The references HTE2 are available for the following pressure ranges.

Accuracy (FS)

		HTE2 0.5 %
Pressure range	Resolution	
-11 6 bar	1m bar	✓
-160 bar	10m bar	✓
0250 bar	100m bar	✓
0400 bar	100m bar	✓
0600 bar	100m bar	✓
01000 bar	100m bar	√

Different measuring ranges and accuracies of ±0.1% and ±0.05% are available on request.

Type plate:

The type plate is located on the back of the HTE2. It contains the most important data (Example).



P max: 1200 bar Supply: Battery Alkaline 2xLR6 AA 1,5V

04-2018



1.1 Delivery, unpacking and accessories

All units have been carefully checked for their operational reliability before shipment. □□Immediately after receipt, please check the outer packaging for damages or any signs of improper handling. □□Report any possible damages to the forwarder and your responsible sales representative. In such a case, state a description of the defect, the type and the serial Number of the device. Report any in-transit damage immediately. Damage reported at a later date shall not be recognized. Unpacking: 🖔 🦫 Carefully unpack the unit to prevent any damage. Scope of delivery: 1x HTE2 according to the order data. 1x Operating manual. Packaging or transport protection (if applicable).



IMPORTANT!

 $\$ Use the type plate to check if the delivered unit corresponds to your order.

In particular, for devices with electrical components, check to see if the correct Power supply voltage is specified.

1.2 Intended use

The digital manometer HTE2 is intended solely for inspecting, adjusting and calibrating pressure measuring equipment.

Do not use the reference HTE2 outside the specifications and do not disregard the operating instructions.

WARNING! No safety component!



The reference HTE2 is not a safety component in accordance with Directive 2006/42/EC (Machine Directive).

 $\$ Never use the reference HTE2 as a safety component.

The operational safety of the device supplied is only guaranteed by intended use. The specified limits (gus 9 "Technical data") may under no circumstances be exceeded. This applies especially to the compliance with the permissible full-scale reading and the permissible temperature range.



DANGER! Risk of injury or material damage in the case of excessive pressure!! Exceeding the maximum overload values can lead to material failure of the digital manometer. At the same time, that can cause serious harm to health.

⇔ Make sure that the overload values are never exceeded.

Before ordering and installation, check that the reference is suitable for your applications.

1.3 Exclusion of liability

We accept no liability for any damage or malfunctions resulting from incorrect installation, in-appropriate use of the device or failure to follow the instructions in this operating manual.

Safety instructions



Before you install the HTE2, read through this operating manual carefully.

If the instructions contained within it are not followed, in particular the safety guidelines, this could result in danger for people, environment, device and the system it is connected to.

The HTE2 correspond to the state-of-the-art technology. This concerns the accuracy, the operating mode and the safe operation of the device.

In order to guarantee that the device operates safely, the operator must act competently and be conscious of safety issues.

Hydrotechnik UK provides support for the use of its products either personally or via relevant literature. The customer verifies that our product is fit for purpose based on our technical in-formation. The customer performs customer- and application-specific tests to ensure that the product is suitable for the intended use. With this verification all hazards and risks are transferred to our customers; our warranty is not valid.

Qualified personnel:



The personnel who are charged for the installation, operation and maintenance of ↑ the HTE2 must hold a relevant qualification. This can be based on training or relevant tuition.

The personnel must be aware of this operating manual and have access to it at all



The electrical connection should only be carried out by a fully qualified electrician.

General safety instructions:



In all work, the existing national regulations for accident prevention and safety in the Workplace must be complied with. Anyinternal regulations of the operator must also be complied with, even if these are not mentioned in this manual.



Degree of protection according to EN 60529:

Ensure that the ambient conditions at the site of use does not exceed the requirements for the stated protection rating (qu§ 9 "Technical data").



Only use the HTE2 if it is in perfect condition. Damaged or faulty devices must be checked without delay and, if necessary, replaced.



When fitting, connecting and removing the HTE2 use only suitable appropriate tools.



⚠ Do not remove or obliterate type plates or other markings on the device, as otherwise the warranty is rendered null and void.

Special safety instructions:

Warnings that are specifically relevant to individual operating procedures or activities can be found at the beginning of the relevant sections of this operating manual.

3 Construction, function and measuring process

For inspecting, adjusting or calibrating, the digital manometer HTE2 must be connected to a pressure generator and the pressure measuring equipment to be tested.

The section "Measurement process" uses examples to describe the calibration process using a pneumatic hand pump as a pressure generator and a mechanical manometer as the unit under test.

Components:

The most important components of the HTE2 are:-

- \bigcirc \bigcirc Cast zinc housing with rubber protection cap.
- 22LCD display with backlight.
- 33Control panel with buttons.
- ④ ④ G¼" pressure connection shanks.
- ⑤⑤Type plate.
- 66 Rear cover with fastening screws.
- ⑦⑦Gasket in the pressure port.

Display and control panel:

- ① ① Measured value display.
- 22Control panel with buttons.
- 3 3 Bar graph display with drag indicator function.
- 4 Unit display.
- ⑤⑤Status line.

The digital pressure gauge HTE2 has an LCD display with additional elements and a graphic bar graph display.

The measured values are displayed as numbers in the 4 $\frac{1}{2}$ -digit display $\bigcirc\bigcirc$





The selected measurement unit 4 4 (bar, PSI, mbar, kPa, MPa, kg/cm², mH2O, inchH2O) is displayed next to the measurement value.

The bar graph display 3 represents the pressure range of 0 to 100% in graphic blocks. The drag indicator function shows pressure peaks with a single line.

In the status bar $\circ \circ$, the battery symbol indicates the current battery level. Next to that, depending on the default, the MIN-, MAX- or FS value is shown.

The measuring mode (\rightarrow § 6.1) and the menu for device settings (\rightarrow § 6.1.1) are operated using the four buttons on the control panel 22

Function of the reference:

Signals from the pressure measurement cells are recorded at a sampling rate of 10 ms (100 measurements/s), converted into pressure values and displayed. The high sampling rate means that dynamic pressure peaks can also be measured. These are written to the MIN/MAX memory, which is continuously updated.

The reference HTE2 supports daily pressure measurements with practical functions such as MIN/MAX display, display filter, zero function, pressure unit adaptation, illumination, battery level display and a programmable Auto-Off function.

4 Connection and battery replacement

The digital manometer HTE2 has a $G\frac{1}{4}$ " (BSPP) male thread and is supplied with batteries fitted. The device is ready for operation after it is switched on (\rightarrow § 5.2).

WARNING! Material damage and risk of injury!

Comply with the nominal pressure specifications of the measurement port and the adapter!



The connection (AF 27) is approved up to a nominal pressure of 1,000 bar.

Observe the nominal pressure specifications of the integrated measurement ports and the specified safety factors.

Comply with the instructions in these operating manual!

In particular, improper installation of the manometer and the related adapter can lead to the manometer tearing off.

Please observe the following instructions when using the HTE2:
$\square\square$ Only authorised personnel are permitted to operate and control the device.
$\square\square$ The deployment location should be sufficiently bright and easy to operate.
\square Take appropriate precautions to protect the device from damage.
\square Pay attention to adequate protection against weather. Observe the degree of protection
according to EN 60529 (→§9 "Technical data").

4.1 Connection

- Prepare the measurement setup for connection to the G¼" pressure connection shank.
- Only use adapters with corresponding nominal pressure specifications!
- Make sure that the gasket is correctly seated in the pressure connection shank.
- Carefully turn the reference by hand into the measurement setup thread.
- Tighten the pressure connection shank with an open-end wrench (AF 27).
- You must assemble with a torque of 25 Nm.
- Align the reference for your application.





IMPORTANT! Check for free turning.

The housing of the HTE2 can be rotated on the pressure connection shank.

During direct assembly, make sure that no attachments interfere with the free turning.

Battery replacement

The battery capacity is continuously monitored by the electronics of the HTE2 and is indicated by the number of bars (0...5 bars) in the battery symbol.



The batteries should be replaced when no bar is visible and the Battery symbol flashes. The HTE2 is still completely functional.

The batteries must be replaced when the additional message "Lo batt " appears. The HTE2 is no longer operational.



CAUTION! Observe the battery type and polarity!

Damage can be caused if a different type of batteries is used or the batteries are incorrectly inserted during replacement.



Use only fresh batteries of the same type (LR6 - AA) when replacing.

Pay attention to correct polarity when inserting.

Comply with the following instructions when replacing the batteries:

- Switch off the device.
- Press the top section of the rubber protection cap backwards over the housing and remove it in the downward direction over the pressure connection shank.
- Open the housing: Remove the screws from the rear cover. Set the rear cover and the screws aside.
- Remove the old batteries.



♠ No domestic waste!

The batteries must be disposed of.

- Insert the new batteries.
 - !!! Pay attention to the POLARITY !!!
- Check the seating of the gasket in the rear cover and watch out for signs of damage.
- Carefully attach the rear cover to the housing with the screws.
- Pull the rubber protection cap back over the housing. While doing so, make sure the recess of the rubber bulge on the front is underneath the button panel.



5 Commissioning, switching on and off

The digital manometer HTE2 is supplied with batteries fitted. The device is ready for operation after it is switched on $(\rightarrow \S 5.2)$.

5.1 Commissioning

Before switching on the HTE2 for first time and when making changes in the measurement setup, follow the instructions below.

Check if

- 🗘 all test setup components are connected to each other.
- 🗘 all connections were made properly and are pressure-proof.

5.2 Switching on and off

Switch the HTE2 on and off with the ON/OFF button.

Switching on:

The device first performs a self-test and is subsequently in the measured value display.

Striefly press the **ON/OFF** button.

- >> All segments of the digital display will appear briefly.
- After that, the pressure range (FS) of the device and the most recently used pressure unit are displayed.
- The current setting of the automatic shut-off follows (Po):

"on" = activated; "off" = deactivated.

- Finally, the serial number and the installed software version of the device are displayed.
- >> The device is subsequently ready and displays
 The current measurement values.

Switching off:

Striefly press the **ON/OFF** button.

>> The device is switched off and the display is blank.

Automatic shut-off:

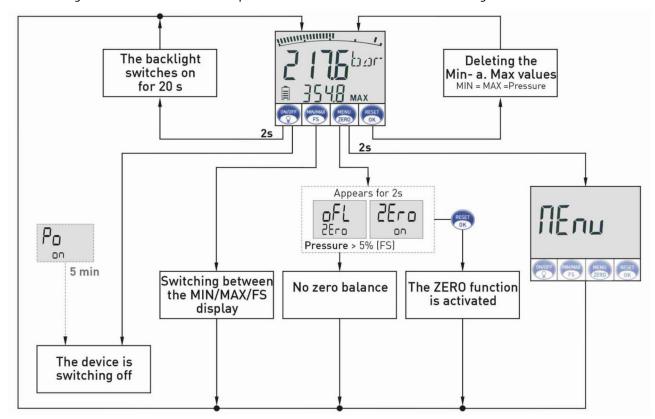
With activated "Po" function (on), the device switches off after 5 min (qpp.17)

6 Measuring mode and operation of the Functions

After switching on and completion of the start-up procedure, the HTE2 enters measuring mode. The current reading is displayed.

6.1 Measuring mode

The following illustration shows the operation and functions in the measuring mode:



In measuring mode, you can activate the various functions (\rightarrow § 6.2) or call the Menu for device settings (\rightarrow § 6.1.1) for the HTE2 device.



ON/OFF/☆☆button:

The **ON/OFF** button is used for switching the device on and off (gps 5.2).

The \mathfrak{D} button switches the backlight on for 20 s (\rightarrow § 6.2).



MIN/MAX/FS button:

Use the MIN/MAX/FS button to change the status bar between the minimum value (MIN), maximum value (MAX) and the pressure range (FS) (\rightarrow § 6.2). The selection is displayed the next time the device is switched on.



MENU/ZERO button:

The **MENU** button is used to call the menu for the device settings. Use the **ZERO** button to perform a zero balance.



RESET/OK button:

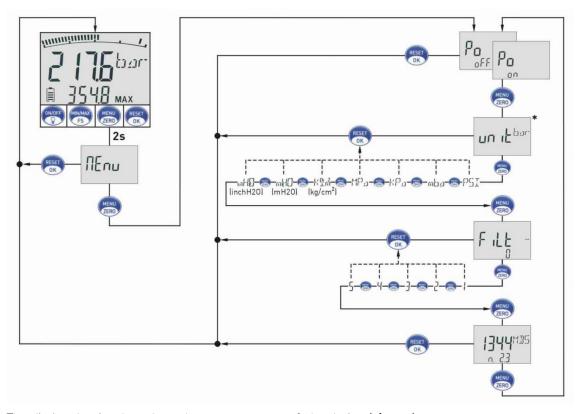
The **RESET** button deletes the current MIN and MAX values.

The **OK** button is used to confirm the selection in the menu.

6.1.1 Menu for device settings

The device functions "Automatic shut-off", "Units" and "Display filter" are configured in the menu for device settings.

The following illustration shows the procedure for creating the device settings:



The displayed units depend on the pressure range of the device (\rightarrow p. 23).

Call the device settings menu with the MENU button.

 $\$ Keep the MENU button pressed for 2s.

>> "Menu" appears in the display.

The individual functions and the possible settings are controlled with the MENU button.

 $\$ Press the OK button to save the setting of the function.

>>The selection is saved and the device switches back to measuring mode.



IMPORTANT! Automatic return!

If no button is pressed, the device switches back to measuring mode after 10 s.

6.2 Operation of the functions

The operation of the functions in the measuring mode and in the device settings menus are described in the sections below.

Backlight



Press and hold the ON/OFF button for 2s.

□ Y

 □ The display lighting switches on.

△ After 20 s, the lighting automatically switches off.

FS (Full Scale) display



The display of the end scale value (FS) is used to improve the legibility of the bar graph display. The end scale value of the pressure range is displayed numerically in the status bar.

The Press the MIN/MAX/FS button to switch between the MIN-, MAX- and FS display.

>> The status bar shows MIN, MAX and FS with the related values one after the other.

MIN/MAX display



The MIN/MAX function is used to measure pressure peaks. The MIN/MAX memory always has the lowest (MIN) and highest (MAX) measurement values respectively.

The Press the MIN/MAX/FS button to switch between the MIN-, MAX- and FS display.

>> The status bar shows MIN, MAX and FS with the related values one after the other.

The MIN/MAX memory is erased when switched off. If you want to perform various pressure tests consecutively, you must erase the MIN/MAX memory after each measurement.

Erasing the MIN/MAX values



Press the RESET/OK button to erase the MIN/MAX values and the bar graph display Drag indicator.

>> The MIN/MAX values are set to the current measurement value.

Out of pressure range / "oFL" display:

The "oFL" display appears when the current pressure lies outside of the pressure range (≥ 110% FS) of the HTE2. If the pressure falls below that, the current measurement value is dis-played.

The MAX value continues to display "oFL" and must first be reset.



If the "oFL" display is shown in the pressure less state, there is a malfunction.

Please contact Hydrotechnik UK

Zero point correction (ZERO)



If there are undesired deviations in the pressure less state (atmospheric pressure), the Zero point can be manually corrected.

CAUTION! Faulty measurements!



The zero point correction sets the current ACTUAL value to zero. If the ZERO function is activated when pressure is applied, the pressure measurement is no longer made against the ambient pressure, resulting in faulty measurements.

♦♦ Activate the ZERO function only in the pressure less state.

Press the MENU/ZERO button.

- >> "ZEro on" appears in the display for 2s. The ZERO function Can be activated.
- Press the RESET/OK button to do the zero point correction.
- >> The display and the MIN/MAX values are zeroed.

or

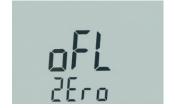
- >> "oFL ZEro" appears in the display for 2s. The measured pressure (0 bar) is greater than 5% of the pressure range. The ZERO function cannot be performed.
- >> The device switches back to measurement mode.
- State and press the MENU/ZERO button again.

Resetting the zero point correction



The zero point correction stays activated until the device is switched off. After it is switched on again, the zero point correction is no longer activated.





6.3 Functions in the menu for device settings

The following functions can be changed in the "Menu for device settings" (\rightarrow \$6.1.1).

To do this, keep the MENU button pressed for 2 s.

>> The display shows "Menu".

🖔 🦫 Keep pressing the MENU button until the desired function appears.

Automatic shut-off:

Automatic shut-off is used to extend the battery life.

When the function is activated, the device automatically switches off after 5 minutes. If the function is deactivated, the device is in continuous duty and has to be manually switched off with the ON/OFF button.

The current setting is displayed when the device HTE2 is switched on:

"Po on" = activated (automatic shut-off);
"Po oFF" = deactivated (continuous duty).

The Press the MENU button again.

The new value of the function is displayed. If the Function is already activated "Po oFF" appears, otherwise "Po on".

Press the OK button to save the new value.

>> The selection is saved and the device switches back to measuring mode.

IMPORTANT! The settings are retained after shut-off!

The settings "Po on" or "Po oFF" are retained and are re-activated when the device is switched on.

Change units:

With the menu item "Unit", you can specify the physical unit of pressure.

Keep pressing the MENU button until the menu item "unit" appears.

>> "unit" and the first adjustable unit appears (bar).

Pressing the MENU button again shows the next adjustable unit. Selectable units:

bar, PSI, mbar, kPa, MPa, kg/cm², mH2O, inchH2O (depending on the pressure range of the device).

Select the desired unit with the MENU button and save your selection with the OK button.

The selection is saved and the device switches to measuring mode.



Filter setting (damping):

The menu item "FiLt" is used to dampen the display.

Skeep pressing the MENU button until the menu item "FiLt" appears.

>> "FiLt 0" appears and right of it the current value ().

Value selection: 0...7 (0 = no damping).

Select the desired value with the MENU button and save your selection with the OK button.

>> The selection is saved and the device switches back to measuring mode.



Displaying the serial number:

The menu item shows the serial number and the software version of the device. You need this information for questions if servicing work is required.

Furthermore, you can use this item to exit the "Menu for device settings" without making any changes.

 $\$ Keep pressing the MENU button until the menu item appears.

>> The serial number and the software version appear:

1st line: Displays the serial number.

2nd line: Displays the software version.

🔖 🖔 Press the MENU button to stay in the "Menu for device settings".

or

Press the OK button to return to the measuring mode.



7 Maintenance and cleaning, storage and transport

CAUTION! Material damage and loss of warranty!



If the customer makes changes or intervenes in the device, important parts or components can be damaged.

Such intervention leads to the voiding of any warranty and the manufacturer's responsibility!

 $\$ Never modify the device or perform any repairs yourself.

Maintenance:

The digital pressure gauge HTE2 is maintenance-free and cannot be repaired by the user. In case of a defect, the device must be replaced or returned to the manufacturer for repair.

The only thing that needs to be regularly replaced is the batteries. We recommend replacing them with new ones latest after 1.5 years (\rightarrow "replacing the batteries").

Cleaning:

Clean the HTE2 with a dry or slightly damp lint-free cloth. Do not use sharp objects or aggressive agents for cleaning.

Storage, transport:

PROCEED CAUTIOUSLY! Electronic Component!

The device contains sensitive electronic components.



Use the original packaging or comparable for transport or shipping.

Avoid shocks and strong vibration.

IMPORTANT! Remove the batteries!



If the device will not be used for longer periods, the batteries should be removed from the device to preclude any leaking damage.

7.1 Return shipment to the manufacturer

Due to legal requirements placed on environmental protection and occupational safety and health and to maintain the health and safety of our employees, all units returned to Hydrotechnik UK for repair must be free of toxins and hazardous substances. That also applies to cavities in the devices. If necessary, the customer must neutralise or purge the unit before return to Hydrotechnik UK.

Costs incurred due to inadequate cleaning of the device and possible costs for disposal and/or personal injuries will be billed to the operating company.

WARNING! Risk of injury due to insufficient cleaning!



The operating company is responsible for all damages and harm of any kind, in particular physical injuries (e.g. caustic burns or toxic contaminations), decontamination measures, disposal etc. that can be attributed to insufficient cleaning of the measuring instrument.

 $\$ Comply with the instructions below before returning the unit.

The following measures must be taken before sending to Hydrotechnik UK for repair:

- Clean the device thoroughly. This is of extreme importance if the medium is hazardous to health, i.e. caustic, toxic, carcinogenic or radioactive etc.
- $^{\triangle}$ Remove all residues of the media and pay special attention to sealing grooves and slits.
- Attach a note describing the malfunction, state the application field and the chemical/physical properties of the media.
- Please contact your vendor for the procedure for sending returns and please specify a point of contact in case our service department has any questions.

The customer must confirm that the measures were taken to ensure any returned product is free from any harmful substances or product.

8 Disassembly and disposal



CAUTION! Risk of injury!

Never remove the device from a plant in operation.

Make sure that the plant is shut down professionally.

Before disassembly:

Prior to disassembly, ensure that the equipment

- is switched off.
- 🗘 is depressurised and has cooled down.

Disassembly:

- Watch out for any leaking media. Take appropriate precautions to collect them.
- \$\times\$ Loosen the pressure connection shank with an open-end wrench (AF 27).
- Manually turn the HTE2 out of the measurement setup.

Disposal:

In conformance with the 2011/65/EU (RoHS) and 2012/19/EU (WEEE)* directives, the device must be disposed of as electrical and electronic waste.

Observe the legal regulations of the country in which the device is marketed.



NO HOUSEHOLD WASTE!

The HTE2 consists of various different materials. It must not be disposed of with household waste.

Take the HTE2 to your local recycling plant or send the HTE2 back to your supplier or Hydrotechnik UK

9 Technical data

The technical data of customised versions may differ from the data in these instructions. Please observe the information specified on the type plate.

Characteristics Reference HTE2	
Pressure ranges input	
Strain gauge pressure cell	-1 16 bar, -1 60 bar and 0250/400/600 & 1000 bar
Accuracy (25 °C)	
Type HTE2	0.5 % FS ±1 digit
Sampling rate	10 m s
Internal resolution AD converter	12 bit = 4,096 steps
Temperature influence	0.05% FS / 10 K
Display/ LC Display:	
Actual value	4 ½ digits (15mm)
MIN/MAX or Full Scale (FS)	4½digits (8mm)
Bar graph	33 segments (drag indicator function)
Sampling rate	50 ms (20 measurements/s)
Backlight	50 x 34 mm
Pressure units	bar, PSI, mbar, kPa , MPa, kg/cm ² , mH2O, in chH2O
Electrical characteristics	
Supply voltage	Battery 2 x1.5VDC AA (LR6 –AA), Alkaline (Mignon)
Battery life	1 ,500 hrs (without lighting)
Degree of protection (EN 60529)	IP 67
Ambient conditions and process variables	s
Operating temperature	050°C
Fluid temperature	-20+80°C
Storage temperature	-20+60°C
Relative humidity	<85%
Vibration	IEC 6 006 8 -2 -6/10 500 Hz/5g
Shock	IEC 6 006 8 -2 -29/11ms/25g
Pressure connection:	
Material	Stainless steel 1.4404
Connection thread	¼ "BSPP (ISO 1179-2)
Gasket	NBR
Housing:	
Material	Zinc cast (Rubber protection cap: TPE)
Dimensions	Ø = 79mm, T= 33mm
Weight	540 g

ressure range	bar	PSI	mbar	kPa
-116 bar	99916.000	-14.5232.1	-99916000	-99.91600.0
-160 bar	-1.0060.00	-14.5870.2	-/-	-1006000
0250 bar	0.0250.0	03626	-/-	Î -/-
0400 bar	0.0400.0	05802	-/-	-/-
0600 bar	0.0600.0	08702	-/-	-/-
01000 bar	0.01000.0	014504	-/-	-/-
ressure range	MPa	kg/cm2	mH2O	inH2O
-116 bar	1001.600	99916.315	-9.99163.16	-4016423
-160 bar	1 006.000	-1 .0261.18	-10.2611.8	<u> </u>
0250 bar	0.0025.00	0.0254.9	02549	-/-
0400 bar	0.0040.00	0.0407.9	04079	Ì -/-
0600 bar	0.0060.00	0.0611.8	06118	-/-
01000 bar	0.00100.00	0.01019.7	010197	-/-
		ı	1	



CAUTION! Material damage!

Exceeding the maximum overload values (Pmax) can lead to malfunctions and result in the digital manometer being destroyed.

Overload values		
Pressure range	Overload	Burst pressure
-11 6 bar	40 bar	200 bar
-16 0 bar	120 bar	550 bar
0250 bar	500 bar	1200 bar
0400 bar	800 bar	1700 bar
0600 bar	1200 bar	2400 bar
01000 bar	1500 bar	2500 bar
		,
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10 EC Declaration of Conformity



EU Declaration of Conformity

In accordance with of European Parliament and Council Decision No 768/2008/EC Annex III

1. We declare that the products:

Product Digital Pressure Manometer

Model/series HT-E2

2. Placed on the market by:

Name Hydrotechnik UK Ltd.

Address 1 Central Park, Lenton Lane, Nottingham, NG7 2NR, UK

3. The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Reference & Date	Title
2014/68/EU	The Pressure Equipment (PED) Directive
2014/30/EU	The Electromagnetic Compatibility (EMC) Directive
2011/65/FU	The Restriction of Hazardous Substances (RoHS) Directive

4. References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

Reference & Date	Title
DIN EN 50581:2013	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances; German version EN 50581:2012
EN 61000-6-2 + Revision 1:2011	Electromagnetic compatibility (EMC). Generic standards. Immunity for industrial environments
EN 61000-6-3:2007 + Revision 1:2011	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial & light industrial environments

Signed for and on behalf of: Hydrotechnik

Place of issue: Lenton Lane, Nottingham, UK

Date of issue: 10 May 2018

Name: Richard Price

Posiion: Managing Director

Signature:





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