

Bench Top pH /mV/ Temp. Meter

HD3405.2



Technical Characteristics pH / mV / °C/°F Measurement

Measured Values

pH, mV, °C, °F

Storage of Measured Values

Type
Quantity
2000 pages of 17 samples each
34,000 sets of measures made up of (pH or mV) & (°C - °F)

Measurement Connections

Temperature Probe Input with SICRAM module or TP47 module
pH/mV input
8-pole male DIN45326 connector
female BNC

pH Measurement

Measurement Range
Resolution
Accuracy
Input impedance
Calibration Error @ 25°C
Automatic / Manual
Temperature Compensation
-2.000...+19.999pH
0.01 or 0.001pH selectable from menu
±0.001pH ±1digit
> 10¹²Ω
|Offset| > 20mV
Slope < 50mV/pH or Slope>63mV/pH
Sensitivity <85% or Sensitivity >106.5%
-50...+150°C

mV Measurement

Measurement Range
Resolution
Accuracy
Drift after 1 year
-1999.9...+1999.9
0.1mV
±0.1mV ±1digit
±0.5mV / year

Temperature Measurement

Pt-100 Measurement Range
Pt-1000 Measurement Range
Ni1000 Measurement Range
Resolution
Accuracy
Drift after 1 Year
-200...+650°C
-200...+650°C
-20...+250°C
0.1°C
±0.1°C ±1 digit
0.1°C / year

Automatically detected pH standard solutions (@25° C)

1.679pH ; 2.000pH ; 4.000pH ; 4.008pH ; 4.010pH ;
6.860pH ; 6.865pH ; 7.000pH ; 7.413pH ; 7.648pH ;
9.180pH ; 9.210pH ; 10.010pH



HTA INSTRUMENTATION (P) LTD.,

An ISO 9001: 2015 Certified Company & NABL Accredited Calibration Laboratory as per ISO/IEC 17025:2017

Your One Stop For Instrumentation Supply, Automation & Calibration

73, Ramachandra Agrahara, Near T.R. Mills, Chamarajpet, Bangalore - 560018, INDIA.

Phone : 080-26749750, 26759253, 26740681 E-mail : sales@htaipl.com Website : www.htaipl.com



Specification

Technical Characteristics	HD3405.2
Display	2×4½ characters plus symbols. Visible area : 52×42mm
Measuring Range	-2.000....+19.999pH; -1999.9...+1999.9mV -200.....+650°C
Maximum Resolution	0.1pH - 0.001pH ; 0.1mV ; 0.1°C
Accuracy Instrument	±0.001pH ± 1digit ; ±0.1mV ± 1digit ; ±0.1°C ±1digit
Measured Values	pH, mV, °C, °F
Storage Capacity	34,000 samples (pH or mV) - (°C, °F)
Body	ABS, Rubber
Electronics Operating Conditions	T = -5.....50°C 0....90%RH no condensate
Protection Degree	IP 66
Power Supply	3 batteries Type 1.5V AA - Mains adapter 12Vdc/1A (cod. SWD10)
Storage Interval	1s, 5s, 10s, 15s, 30s, 1min, 2min, 5min, 10min 15min, 20min, 30min and 1 hour
Printing Interval	Immediate or 1s, 5s, 10s, 15s, 30s, 1min, 2min, 5min, 10min 15min, 20min, 30min and 1 hour
Data Interface	RS232C and USB2.0 electrically isolated
Automatically Detected Standard Solutions	1.679pH / 2.000pH / 4.000pH / 4.008pH / 4.010pH / 6.860pH / 6.865pH / 7.000pH / 7.413pH / 7.648pH / 9.180pH / 9.210pH / 10.010pH
Dimensions (L×W×H)	220 × 120 × 55mm
Weight	460g (complete with batteries)

Technical Data of probes and modules equipped with instruments of the series HD34....

◦ pH Electrodes for HD3405.2 and HD3456.2

ORDERING CODE	MEASUREMENT RANGE AND USE	ORDERING CODE	MEASUREMENT RANGE AND USE
KP20	0....14pH/0...80°C/3 bar Body in Epoxy - GEL filled 1 ceramic diaphragm Waste Water, Drinking Water, Paints, Water Emulsions, Galvanic Baths, Fruit Juices, Water Suspensions, Titration, Varnishes.	KP61	2...14pH / 0...80°C / 3bar Body in Glass Liquid reference filling Triple ceramic diaphragm Waste Water, Paste, Bread, Fruit Juices, Varnishes, Cosmetics, Creams, Deionised Water, Drinking Water, Water Emulsions, Galvanic Baths, Detergents, Yoghurt, Milk, Titration, Preserved Food, Titration in non-water Solutions, Water Suspensions, Mayonnaise, Wine, Low ion-content Solution, Butter, Proteic Substances, Paints, Viscous Samples.
KP30	0....14pH/0...80°C/3 bar Body in Epoxy - GEL filled 1 ceramic diaphragm Cable L = 1 m with BNC Waste Water, Drinking Water, Water Emulsions, Galvanic Baths, Paints, Varnishes, Water Suspensions, Fruit Juices, Titration.	KP62	0...14pH / 0...80°C / 1bar Body in Glass - GEL filled 1 ceramic diaphragm Paints, Varnishes, Drinking Water, Water Emulsions, Fruit Juices, Galvanic Baths, Water Suspensions, Titration, Waste Water.
KP50	0....14pH/0...80°C/3 bar Body in Glass - GEL filled 1 Teflon ring diaphragm Varnishes, Cosmetics, Water Emulsions, Galvanic Baths, Creams, Deionised Water, TRIS Solutions, Drinking Water, Fruit Juices, Low-ion-content Solutions, Mayonnaise, Preserved Food, Paints, Titration, Titration in non-water Solutions, Water suspensions, Detergents, Waste Water, Viscous Samples.	KP63	0...14pH / 0...80°C / 1bar Body in Glass Reference filling solution KCl 3M 1 ceramic diaphragm Cable L = 1m with BNC Paints, Varnishes, Drinking Water, Water Solutions, Fruit Juices, Galvanic Baths, Water Suspensions, Titration, Waste Water.

ORDERING CODE	MEASUREMENT RANGE AND USE
KP64	0....14pH / 0...80°C / 0.1 bar Body in glass Liquid reference KCl 3M Teflon collar diaphragm Paints, Varnishes, Cosmetics, Creams, Deionised Water, Drinking Water, Water Emulsions, Fruit Juices, Detergents, Low ion-content Solutions, Preserved food, Water Suspensions, Titration, Titration in non-water Solutions, TRIS Solutions, Waste Water, Viscous Samples, Wine.
KP70	2....14pH / 0...50°C / 0.1 bar Body in Epoxy - GEL filled 1 open Junction Paste, Bread, Paints, Varnishes, Cosmetics, Creams, Drinking Water, Water Emulsions, Fruit Juices, Galvanic Baths, Detergents, Mayonnaise, Preserved Foods, Cheese, Milk, Water Suspensions, Viscous Samples, Waste Water, Butter, Yoghurt.
KP80	2....14pH / 0...60°C / 1 bar Body in glass - GEL filled 1 open Junction Paste, Bread, Paints, Varnishes, Cosmetics, Creams, Drinking Water, Water Emulsions, Fruit Juices, Galvanic Baths, Detergents, Mayonnaise, Preserved Foods, Water Suspensions, Titration, Titration in non-water Solutions, Viscous Samples, Waste Water, Yoghurt, Milk Butter.

► Order Codes for Instrument Series HD34....

HD34.5.2K : The kit is composed of instrument HD3405.2 datalogger, for measurement of pH - Redox - Temperature. 3×1.5V Alkaline Batteries, Operating Manual, Case and DeltaLog9 Version 2.0.

pH /mV Electrodes, Temperature Probes, standard reference solutions for different measurement types, connection cables for pH electrodes with S7 connector, cables for data download to PC or printer have to be ordered separately.

► Temperature probes for HD3405.2 complete with TP47 module

TP87.100 : PT100 sensor immersion probe. Probe's stem Ø 3mm, length 70mm. 4 wire connection cable with connector, length 1 meters.

TP87.1000 : PT1000 sensor immersion probe. Probe's stem Ø 3mm, length 70mm. 2 wire connection cable with connector, length 1 meter.

► Redox Electrodes for HD3405.2 and HD3456.2

ORDERING CODE	MEASUREMENT RANGE AND USE
KP90	± 2000mV 0....80°C 5 bar Body in glass Reference filling solution KCl 3M General use
KP91	± 1000mV 0....60°C 1 bar Body in Epoxy - GEL Cable L = 1m with BNC General use No heavy tasks

=====