



## Intellical PHC705 Laboratory High Alkalinity Range RedRod Refillable Glass pH Electrode, 1 m Cable

**Product #:** PHC705A01  
**ZAR Price:** Contact Hach  
**Ships within 1 week**

### High performance Red Rod technology now available for the digital HQD platform

Intellical PHC705A is a digital combination pH electrode with built-in temperature sensor. The PHC705A is a pH refillable electrode with ceramic porous pin reference junction embedding the RedRod technology to deliver exceptionally fast, stable, and accurate response times for accurate measurements within a wide temperature range. Thanks to its special pH glass bulb composition this high performance laboratory glass pH electrode is particularly suited for measuring pH in alkaline aqueous samples for pH above 12. A 59-mL bottle of saturated KCl Electrode Filling Solution is included with the probe. The PHC705 is not suitable for use with organic solvents, emulsions or sample types with high solids content.

#### Red Rod technology provides fast, accurate and reproducible measurements

Symmetry between internal and external Red Rod reference elements ensures that the iso pH is the same as the zero pH, providing highly reproducible results and a fast, accurate response, even in samples with fluctuating temperatures. Red Rod technology also provides a stable signal by protecting the reference elements from light interference, and the saturated KCl salt-bridge aids in creating a stable liquid junction potential.

#### Red Rod reliability when measuring challenging samples over wider temperature ranges

Red Rod encapsulation of reference elements means no silver ions and less risk of clogged junctions. It also enables accurate measurements over a broader temperature range than standard electrodes.

#### Intellical digital probes can be moved between meters without the need to re-calibrate or re-enter measurement settings

Ideal for a multi-user environment with multiple HQD series laboratory and portable meters.

#### Intellical digital probes provide ultimate traceability in measurement history

Stored time and date stamp for each measurement, operator and sample ID, calibration history, parameter, and probe serial number

#### Wide temperature range up to 100 °C

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### Specifications

Accuracy:	±0.01 pH
Application:	High Performance/High Alkalinity
Cable Length:	1 m
Electrode Type:	Standard
Filling Solution:	Saturated KCl (#25118026)
Junction:	Porous Pin Junction
Kit?:	No
Length:	200 mm
Method Type:	Laboratory: RedRod / Refillable Reference Element
Parameter:	pH

Product Kit:	Model: PHC705A
	Accessories Included: None
Range:	0 - 14 pH
Reference system:	Red Rod
Resolution:	0.001/0.01/0.1
Sensor material:	Glass
Sensor Type :	pH Glass
Sodium (Alkalinity) error:	<0.3 pH at pH 14 in 1 M NaOH
Special Features:	High-alkalinity samples
Temperature Accuracy:	±0.3 °C
Temperature Range:	0 - 100 °C
Temperature resolution:	0.1 °C
Test requirements:	Parameter Needed: pH
	Minimum Sample Depth (mm): 18
Thermistor :	ATC
Warranty:	12 months
Weight:	0.1 kg
What's included?:	Intellical PHC705A Laboratory pH electrode with storage soaker bottle, 1 m cable, 59-mL bottle reference electrolyte filling solution (Saturated KCl solution), Test certificate, and Basic User Manual.

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### Required Accessories

- Filling Solution, Reference, Saturated KCl, 500 mL (Item 25118049)
- Filling Solution, Reference, Saturated KCl, 59 mL (Item 25118026)
- Filling Solution, Reference, KCl Crystals (KCl.C), 15 g (Item S21M001)