



## Intellical PHC705 Laboratory General Purpose RedRod Refillable Glass pH Electrode, 1 m Cable

**Product #:** PHC70501  
**AED Price:** Contact Hach

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

Intellical PHC705 is a digital combination pH electrode with built-in temperature sensor. The PHC705 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. This high performance laboratory glass pH electrode is ideal for measuring pH in a variety of laboratory applications for aqueous samples. 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, samples with high solids content or high alkaline sample types.

#### 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 (-10 to 100 °C)
Cable length:	1 m
Electrode type:	RedRod / Refillable Reference Element
Filling solution:	Saturated KCl (#25118026)
Junction:	Porous Pin Junction
Kit?:	No
Length:	200 mm
Measuring range:	0 - 14 pH
Method Type:	Laboratory: RedRod / Refillable Reference Element
Parameter:	pH

Product Kit:	Model: PHC705
	Accessories Included: None
Reference system:	Red Rod
Resolution:	0.001/0.01/0.1
Sample depth:	18 mm
Sensor material:	Glass
Sensor type :	pH Glass
Sodium (Alkalinity) error:	<0.3 pH at pH 13 in 0.1 M NaOH
Temperature accuracy:	±0.3 °C
Temperature range:	−10 - 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 PHC705 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)