

MODEL 656 DUAL pH ANALYZER**Specification**

Physical Data	
<i>PROPERTY</i>	<i>CHARACTERISTIC</i>
Display	Four and one half LCD digits, 1.5 cm (0.6 in) displays for pH, temperature, error codes, prompts and diagnostic information (<i>back-lit display optional</i>)
Display Ranges	pH: 0.00 pH to 14.0 pH Temperature: -5.0 °C to 105 °C (23.0 °F to 221 °F)
Keypad	8 pushbutton entry keys
LED's	2 alarms (A and B), 1 auto, 1 error
Case Dimensions	12.0 cm (H) × 20.0 cm (W) × 7.5 cm (D) (4.7 in (H) × 7.9 in (W) × 3.0 in (D))
Weight	1.1 kg (2.5 lb)
Shipping Weight	2.3 kg (5.0 lb)
Shipping Dimensions	30 cm × 23 cm × 23 cm (12 in × 9 in × 9 in)
Environmental Data	
<i>PROPERTY</i>	<i>CHARACTERISTIC</i>
Temperature	Operational: 5.0 °C to 45 °C (41.0 °F to 113 °F) Storage: -10.0 °C to 55 °C (14.0 °F to 131 °F) Relative Humidity: 95 % maximum; non-condensing
Environment Ratings	Housing: IP65 (Nema 4X) Pollution Degree: 2 Installation Category: II
Electrical Ratings	115/230 VAC, 0.25 A, 50/60 Hz
Electrical Requirements	115/230 VAC ± 10 %, 50 W

MODEL 656 DUAL pH ANALYZER**Specification**

Operational Data	
<i>PROPERTY</i>	<i>CHARACTERISTIC</i>
Accuracy	pH: Standard deviation ± 0.2 % of pH range Temperature: Standard deviation ± 0.1 °C
Precision	pH: Standard deviation ± 2 digit (0.02 pH units) Temperature: Standard deviation ± 1 digit (0.1 °C)
Response Time	90% within 5 s (default), function of flow and temperature. Damping adjustment: 3 s to 99 s
Temperature Compensation	Auto: -5.0 °C to 105 °C (23.0 °F to 221 °F) Manual: -5.0 °C to 105 °C (23.0 °F to 221 °F)
Automatic Buffer Recognition	4.01 pH, 7.00 pH, 10.0 pH
Preamplifier	Require two model 600 interfaces and pH sensors with TC option -33 to read temperature.
Security	3 access-level security; partial and/or all settings may be protected via 3 and/or 4 digit security code.
Alarms	Two independent, assignable, programmable, configurable, failsafe NO/NC alarm relays; SPDT, Form C, rated 10 A 115 V/5 A 230 V.
Controls	Single or dual PID (optional); standard, pump pulser or time proportional.
Outputs	Two continuous, assignable, programmable 4 mA to 20 mA, or 0 mA to 20 mA outputs; isolated, max. load 600 Ω ; Convertible from 1 VDC to 5 VDC or 0 VDC to 5 VDC.
Communication	Via RS485 bidirectional serial data port; require IC Net™ 2000 software.