

PRIME TECHNOLOGY

Prime Technology, LLC designs and manufactures electronic systems and provides engineering design services for measurement, display, communication and control equipment for various applications. Prime Technology has evolved from Tank Level Indication products into integrated systems with broad applications that combine our expertise in display, software and measurement technologies with our vertically integrated manufacturing capability.

Prime Technology, LLC has been servicing naval requirements for more than 40 years.



*Come visit us at the web....
Or have us visit you in person....*

www.primetechnology.com

Phone: 203-481-5721 • Fax: 203-481-8937

E-mail: sales@primetechnology.com

Twin Lakes Road
P.O. Box 185
North Branford, CT 06471

New CHT Tank Level Measurement Technology

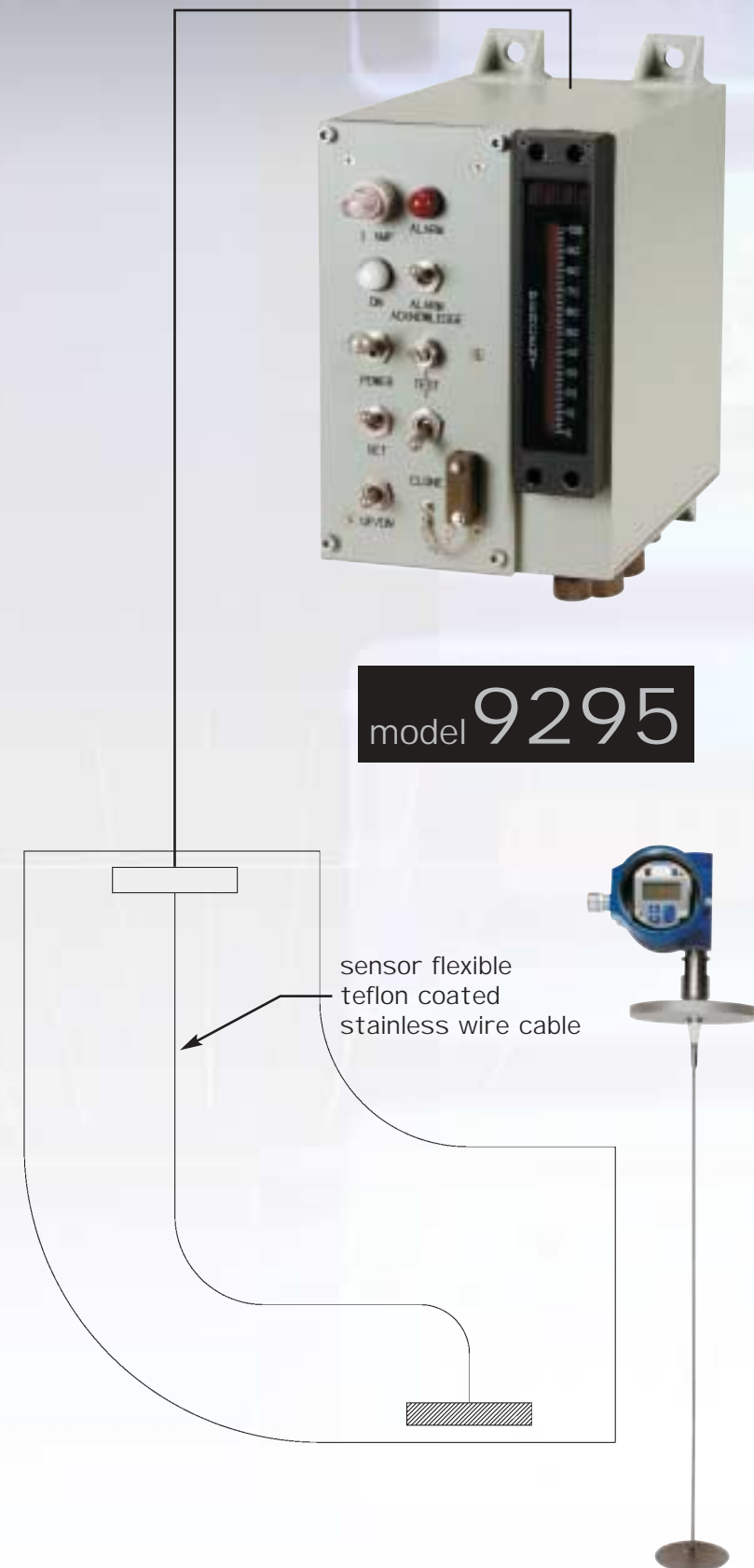
Reliability of CHT tank level measurement has been a problem for many years resulting in high maintenance costs. This is directly attributed to the sensor technology currently being applied.

Prime Technology's solution to these problems is the Guided Wave Radar Tank Level Measurement System Model 9295.

- No moving parts in the tank.
- Teflon coated sensor surface for elimination of foreign matter adhesion.
- The model 9227 indicator linearizes all user-supplied tank fill data to provide a clear, error-free and easily readable linear display. (Patent Number 5,751,611)
- Stocking of spares is minimized due to our patented cloning feature. A programmed instrument can download all setting information to an unprogrammed spare unit. Interchangeability of display modules and power supplies anywhere aboard. (Patent Number 5,918,193)
- System accuracy of 1%.

exclusive design from

**PRIME
TECHNOLOGY**

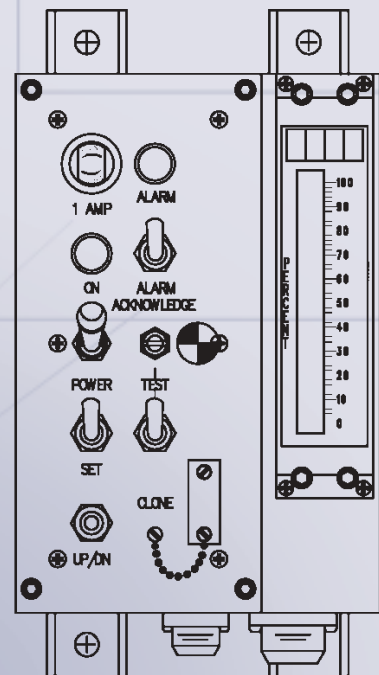


Features

- System accuracy of 1%
- Application of Guided Wave Radar dramatically reduces system failures
- Sensor electronics are mounted outside the tank, drastically reducing in-tank maintenance
- Programmable alarms and display characteristics
- Built-in test includes sensor monitoring and fault indication
- Programmable tank level alarms and level failure alarm outputs
- System modularity for maintainability and logistic support
- Flash processor; field upgradeable
- Analog and/or digital retransmission of processed data

Description

- **System Modularity for Maintainability and Logistic Support**
- **Flash Processor; Field Upgradeable**
- **Patented Cloning and Curve Fitting Technology** – any indicator module (model 9227) can be field uploaded with multiple tank fill data from any operating “smart indicator” (model 9227) by connecting the indicator module into the cloning port (refer to drawing below). (Patent Number 5,918,193) The newly installed indicator module will contain curve correction and parameter data. (Patent Number 5,751,611)
- **Display Dimming Capability; Analog or TTL PWM Control**
- **Field Programmable Tank Level Alarms and Level Fail Alarm Outputs**
- **Sensor Status Indicator LED's**
- **Analog and/or Digital Retransmission of processed data**
 - > Analog Sensor Inputs converted to Digital Data
 - > Remote Replication of ALL Indicator Parameters including Alarms retransmission
 - > Serial Communication for Digital Data Transfer (RS232/422/485 Bi directional)
 - > Analog Retransmission configurable as: 4-20mA, 0-200uA, 0-10VDC, +/- 10VDC
- **Stored and Reprogrammable Tank Field Data**
- **Isolated Discrete Alarm Outputs**
- **Flashing Display Alarm Indication**
- **Fault codes displayed on 4 digit display for ease of system trouble shooting**
- **System fail alarm outputs**
- **Continuous system “built-in test” capability**



model 9295 Guided Wave Radar Level Measurement System

Technical Specifications

■ GENERAL

Ambient Temperature Range
 Storage -40°C - 85°C
 Operating -25°C - 60°C

Input Power
 Voltage 115 VAC
 Frequency 60 HZ
 Current 600 ma. (max.)

Display Characteristics
 DIGITS
 Color Red (λ = 660nm)
 Segments 4 - (7) Segments LED
 BAR GRAPH
 Color Red (λ = 660nm)
 Segments 101 Segments LED

DIMMABLE
 Analog
 Pulse Width Modulation Control

GW R Input Impedance
 4-20 DCmA 124 Ω (±0.1%)

Digital I/O
 RS232/422/485
 Serial data transceiver

Alarm Outputs
 (4) Independently Configurable

■ PHYSICAL

Weight 25 lbs. (max.)
Overall Dimensions
 10.50" L x 9.25" W x 8.50" D
 (74mm L x 45mm W x 102mm D)

■ PERFORMANCE

System Accuracy 1%
Resolution 15 binary bits

| Qualified to MIL Standards | | Indicator | Sensor |
|----------------------------|-----------------------|-----------|---------|
| • EMI | MIL-STD-461 | Qualified | Pending |
| • Shock | MIL-S-901 | Qualified | Pending |
| • Vibration | MIL-STD-167 | Qualified | Pending |
| • Drip-Proof | MIL-STD-108 | Qualified | Pending |
| • Salt Spray | MIL-STD-202 | Qualified | Pending |
| • DC Magnetic Field | MIL-STD-1399, Part 70 | Qualified | Pending |

Dimensions

