

LC-300 Deep Well Level Indicator

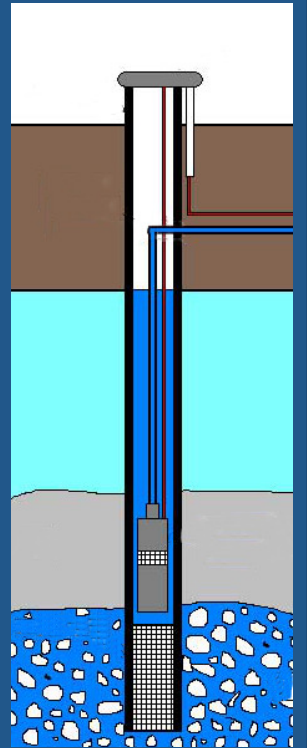
2000 Foot Depth Range

Originally developed for the Offshore & Marine markets, LevelCom products have a proven record of success in 20 years of use in harsh environments.

The LC-300 microprocessor based pulsed bubbler is one of the most accurate and reliable deep well level indicators on the market.

The LC-300 eliminates inconsistent readings and maintenance costs found with submersible pressure transducers. All controls are topside out of the well, eliminating the need for well tear down to replace a failed sensor .

- **Aquifers**
- **Municipal Wells**
- **Mining**
- **Agriculture**



- Easy Installation and Setup
- Monitors without electronics (sensors) in the liquid
- Eliminates replacement costs from failed pressure transducers
- 4 Alarm set points– high to low
- Control Relays
- Displays Depth, Weight or Volume; English or Metric
- Long service life, low maintenance
- Automatic sensor zero

The LC-300 deep well monitoring solution.

Using “**Advanced Bubbler Technology**”, a microprocessor based system with the accuracy and dependability of a hydrostatic bubbler,

The rugged design of the LC-300 works in conditions where other technologies will not work or have a short life expectancy.

- **Continuously and accurately monitors water levels with either analog or digital output. Compatible with telemetry, control and SCADA systems**
- **Self diagnostic—automatically monitors gas cylinder pressure, detects leaks and plugs in the well sense line**
- **Continuously monitors well head pressure for accuracy**
- **Modbus RTU 485 / Ethernet communication provide digital data to HMI or SCADA Systems**
- **Wireless LAN communication available**

LC-300 FEATURES

LevelComs “Advanced Bubbler Technology”

- Eliminates the need for down hole sensors: only nylon or stainless steel tubing goes down the well
- All the electronics are above ground out of the well, greatly reducing maintenance costs
- Annulus Offset: accurate levels under pressure or vacuum

Installation requires connection to an air supply, electrical power source and bubbler tube. Only the stationary bubbler tube and the purge gas come in contact with the liquid making this system ideal for well applications involving polluted, hot, hazardous, corrosive liquids and slurries.

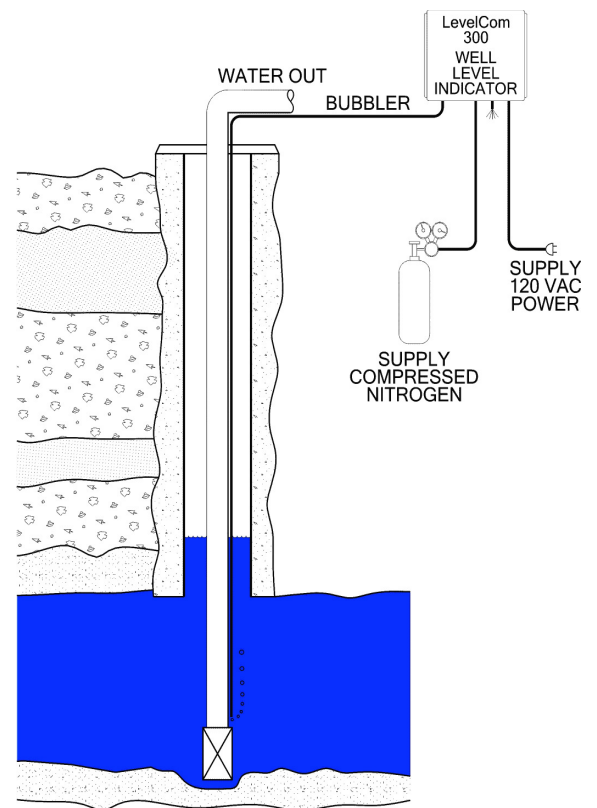
All controls are above ground making maintenance and service quicker, safer and more economical, eliminating the need for costly well tear downs.

For hazardous area installation, the LC-300 controls can be located up to 600 feet away from the well head. The pneumatic tubing isolates the hazardous from the safe area.

The LC-300 automatically zeros its sensor to atmosphere every 30 minutes. The bubbler tube is purged at regular intervals to keep the line clear. Self-diagnostics check the system for both pneumatic and electronic faults. If a problem is found, the LC-300 displays the appropriate error message or activates an alarm to alert the operator.

All values and alarm set points are displayed in either English or Metric units of measure, (depth, volume or weight) on the digital display.

The LC-300 options include, analog output (4-20 mA), Modbus, Profibus, Ethernet and Wireless communication.



Applications

- Municipal Water
- Ground water
- Reservoirs
- CBM (Coal Bed Methane)
- Polluted / Hazardous
- Mining
- Lakes

OPTIONS

Depth Range — Ft. Meters	0–2000 610			
Communication RS 485	Modbus	Profibus	Modbus TCP/IP	Wireless
Alarm & Control Relays	4 programmable internal set points, Control 1 & 2, On / Off; 2 – SPDT Form C relays (“rated “Pilot Duty”)			
Analog Output	4 to 20 mA			

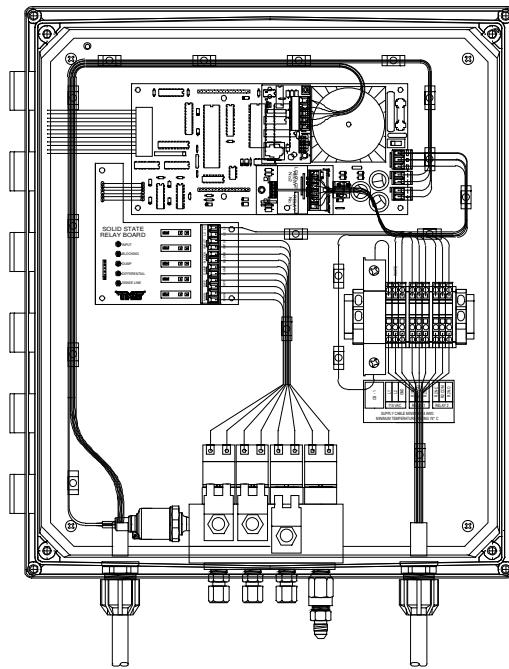
SPECIFICATIONS

Power	120VAC / 100mA / Fuse – 2A; 50/60 Hz
Supply Gas	Compressed Nitrogen (N2) depending on well depth
Temperature	Operating range: -30° F to +140° F (-34.4° C to +60° C)
Enclosure	UL listed NEMA 4X, non metallic, several door options
Display	6 digit alpha numeric display, LED status indicators
Dimensions	14.5” (37cm) H x 5.5” (14cm) W x 3.8” (9.6cm) D
Linearity (BFSL)	Less than or equal to +/- 0.5%
Hysteresis	Less than 0.25% FSO
Humidity	5–95% RH non-condensing
Alarm Set Points	Four (4) programmable internal set points (Relay option required for remote alarm activation)
Control Set Points	Four (4) programmable set points (Control 1 & 2 On/Off) (Relay option required)



One LevelCom LC-300 replaces:

- Pressure Transducer
- Vented cable
- Signal Amplifier
- Panel Meter /Display



TMS is the leader in developing and refining pulsed bubbler and tank monitoring technology for over the past 20 years. LevelCom products have earned a reputation for being a very accurate, dependable monitoring systems with a very long trouble free service life.

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