

Product Brochure

Ultrasonic level sensors & accessories

About Solid Applied Technologies (SolidAT)

Manufacturer and developer of advanced ultrasonic level sensors and remote level monitoring solutions. SolidAT sensors are non-contact and measure level, volume and temperature of liquids or solids continuously in storage, process and flow in open channel flow applications. Remote level monitoring is based on GaugerGSM - ultrasonic level sensor with cellular (GSM) communication capabilities.

Products web page:
www.solidat.net/download

SmartScan50

SmartScan25

Gauger420

Gauger485

GaugerGSM

GaugerNET

GaugerGPS

MonoScan

MicroScan

SmartLite

GaugerBAT

SOLID*GPS

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► Measure The Solid Benefits...

Smart Scan 50

Ultrasonic level sensor for most challenging applications

Highlights

- 4-wire, 2-part, continuous measurements
- Liquids, solids and Open Channel Flow
- Supporting tank volume and OCF totalization
- Range up to 12 m (39') for liquid targets
- Available certified for explosive atmospheres
- PVDF sensor for chemically aggressive targets
- 4-20mA, RS232 / RS485, Modbus and 5 relays
- Sensor cabled up to 200 m from control unit
- Temperature: -40° to 90° C (-40° to 194°F)

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Applications

Water and wastewater

Pump control

Chemical processes

Petrochemicals

Food, beverage, agriculture

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Smart Scan 25

Ultrasonic level sensor for long-range applications

Highlights

- 4-wire, 2-part, continuous measurements
- Liquids and solids
- Range up to 40 m (130') for liquid targets
- Available certified for explosive atmospheres
- PVDF sensor for chemically aggressive targets
- 4-20mA, RS232, RS485, Modbus and 5 relays
- Sensor cabled up to 200 m from control unit
- Temperature: -40° to 80° C (-40° to 176°F)

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Applications

Water reservoirs, dams, and rivers

Large storage vessels, open air piles and high silos

Solids: grains, pellets

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Gauger 420

Compact, 2-wire, continuous ultrasonic level sensor for all applications

Highlights

- Loop powered, 4-20mA, HART and RS485
- USB for configuration, monitoring & upgrades
- Rapid process tracking to 10m/min (33'/min)
- Range up to 8.0 m (26') for liquids
- Ultra-short dead zone of 15cm
- Optional range 0.35 – 9.5 m (1.1' – 31')
- Available certified Intrinsic Safe (ATEX/IECEX)
- PVDF sensor and sealing rate of IP68 for the most demanding environment
- Support for two temperature sensors
- Level, distance, volume, open-channel-flow (including Manning), Totalization & temperature

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Applications

Chemical process tanks

Water desalination and
water treatment plants

Open Channel Flow

Food, Beverage and agriculture

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Gauger 485

Compact, continuous ultrasonic level sensor with digital output

Highlights

- RS485, one relay and one dry contact input
- USB for configuration, monitoring & upgrades
- Rapid process tracking to 10m/min (33'/min)
- Range up to 8.0 m (26') for liquids
- Ultra-short dead zone of 15cm (6")
- Optional range 0.35 – 9.5 m (1.1' – 31')
- PVDF sensor and sealing rate of IP68 for the most demanding environment
- Support for two temperature sensors
- Level, distance, volume, open-channel-flow (including Manning), Totalization and temperature

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Applications

Gauger485 is a perfect solution for applications interfacing an external modem, PLC, RTU or laptop/PC.

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GaugerGSM

**Compact level sensor integrated with
wireless GSM communications**

Highlights

- RS485, one relay and one dry contact input
- USB for configuration, monitoring & upgrades
- Range 0.15 -8.0m(6"-26') / 0.35-9.5m (1.1'-31')
- GPRS (data) or SMS transmissions over GSM
- Alerts for 3 level crossings, full, empty, refill, over-consumption
- May be operated by external battery pack
Available certified Intrinsic Safe (TEX/IECEx)
- PVDF sensor and sealing rate of IP68
Level, distance, volume, open-channel-flow
(including Manning), Totalization & temperature
- Web monitoring available (GaugerNET)

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Applications

Diesel tank monitoring

Sewer monitoring

Rivers and water reservoirs

Monitoring of remote silos

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GaugerNET

Web monitoring service for GaugerGSM and GaugerGPS

Highlights

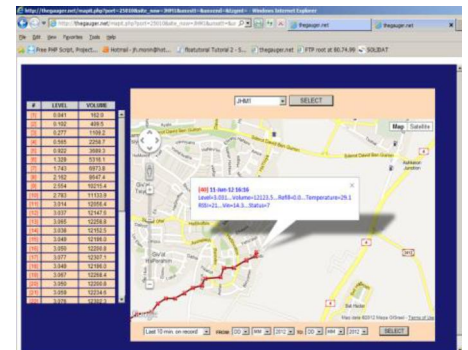
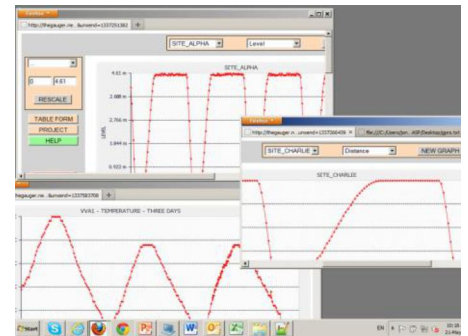
- Graphic and table views from each site
- Level, Volume, OCF, Temperature charts
- Data stored in MySQL database
- Project summaries
- e-mail alerts
- Location map
- Multiple sites
- May be viewed from any standard web browser

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Applications

Cost-effective and immediate solution for viewing data (GPRS) transmissions by many users from fielded GaugerGSM & GaugerGPS systems.

GaugerGPS

Level sensor integrated with GSM communications and GPS receiver

Highlights

- USB for configuration, monitoring & upgrades
- Range 0.15 -8.0m (6"-26')
- GPRS (data) or SMS transmissions over GSM
- Location data (GPS)
- Alerts for 3 level crossings, full, empty, refill, over-consumption
- PVDF sensor and sealing rate of IP68 for most demanding environment
- Level, distance, volume, open-channel-flow (including Manning), totalization, temperature
- Web monitoring available (GaugerNET)

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Applications

Diesel tanker monitoring

Tracking of mobile vessel
assets (water, oil)

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MonoScan

Compact level sensor for long range of 15 m (49')

Highlights

- Two wire, 4-20mA
- Simple and direct installation
- Side looking display
- Support for liquids and solids
- Support for Open Channel Flow
- Available certified for explosive atmospheres
- Optional PVDF sensor for aggressive chemicals

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Applications

Outdoor applications:
water reservoirs, rivers,
piles

Outdoor applications:
water reservoirs, rivers,
piles

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MicroScan

Compact and cost-effective level sensor

Highlights

- A two wire, 4-20mA design
- Optional 4-digit LCD
- Range of 5 meters (16') for liquids
- Direct installation
- External programming device (MSU)

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Applications

Water applications
Calm liquid targets &
shallow solids (grains)
Wide storage vessels
Steady outdoor piles

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SmartLite

Basic two-part level sensor

Highlights

- 4-wire, 2-part, continuous measurements
- Liquid applications
- Range up to 10 m (33')
- 4-20mA, Modbus (read) and 2 relays
- Sensor cabled up to 200 m from control unit
- Temperature: -40° to 80° C (-40° to 176°F)

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Applications

Water & oil applications

Calm liquid targets

Wide storage vessels

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GaugerBAT

Intrinsic Safe Battery Pack for Hazardous explosive areas

Highlights

- A battery enclosure for 3 or 4 LiSOCl₂ cells
- External protecting circuit device
- Nominal voltage 10.8 VDC or 14.4 VDC
- Capacity of 19AH
- Enclosure sealing rate IP67



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Applications

Battery powered
applications in explosive
atmosphere environment.

Solidat*GPS

Rugged GPS terminal/RS485 output

Highlights

- Integrates GPS receiver with internal antenna,
- RS485 transceiver and power supply
- User interface is 4-wire cable (2 wires for power and 2 wires for data)
- RS485 interface: Baud Rate 4800 (8/N/1)
- Data: NMEA-0183 GPGLL (location & time)
- 1 GPS message per 3 Second
- Input voltage: 7 to 36 VDC
- Sealing rate IP68

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Applications

GPS location in challenging environment
GPS location for industrial or marine mobile platforms such as tankers

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