



Solid Applied Technologies

You Can Measure the Solid Benefits



The Solid Group

Solid AT is a member of the Solid Group:

Group's activities:

- Financial activities in key European and US capital markets with SEC and NASD licenses.
- Real estate projects in prime commercial and residential locations.
- Hi-tech investments focused on innovative, break-through technologies.



Solid AT

Company Vision

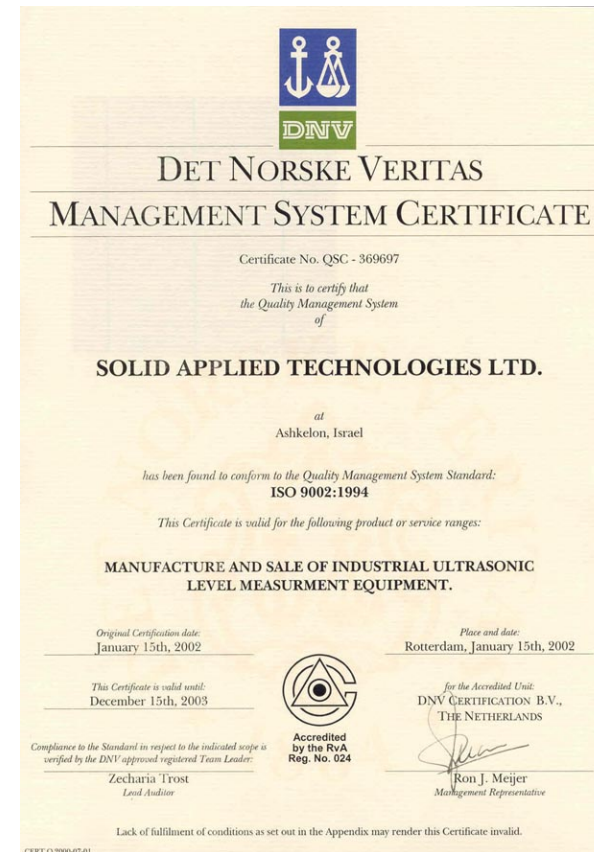
- To be a Leader in accurate level measurement technologies.
- To be a major player in industrial level measurement market.
- To Implement Innovative solutions, based on proven technologies.
- To Set new standards of performance.



Solid AT

Company Profile

- State of the art ultrasonic and radar level measurement devices.
- Expert R&D team specializing in breakthrough technologies.
- Sophisticated production facilities and quality control (ISO Certified).
- International professional distribution network.
- Highly qualified and committed customer support desk.



Solid AT

The Ultimate Level Measuring Solution

- SolidScan -ultrasonic level gauging instruments based on Patented technology. Requiring no calibration and automatically compensate for virtually all environments.
- SoltaScan -a new generation of radar level gauging instruments for commercial industries developed with the assistance of Elta, a world leader in defense radar systems.



Solid AT

Products range



SoltaScan



SmartScan 25



SmartScan 50



MonoScan



MonoScan

Product Description

- 2-wire loop powered
- Monoblock construction
- Integral LCD display
- Accuracy of 0.25% of measured range
- 3mm (0.11 inch) resolution
- No calibration or maintenance required



MonoScan

Models

Standard Range:

- **MonoScan L** : 0.6 - 15 m
- **MonoScan O**: 0.6 - 15 m
- **MonoScan S**: 0.6 - 8.5 m

Readings (Rate & Accuracy):

- Low dynamic: 1 min,
- 1/4% of range.
- High dynamic: 20 seconds,
- 1/3% of range.

Short Range:

- **MonoScan L** : 0.2 - 5 m
- **MonoScan O**: 0.2 - 5 m
- **MonoScan S**: 0.2 - 5 m

Readings (Rate & Accuracy):

- Low dynamic: 1 min,
- 1/4% of range.
- High dynamic: 15 seconds,
- 1/3% of range.



MonoScan 485

Product Description

The 4-wire version includes RS485 output, with built-in Modbus RTU, bi-directional programming and provides faster monitoring, 12cm/min.

With the addition of external adapter the following options are available:

- Hart Protocol
- 3 SPDT Relay
- Isolated/non Isolated ground



MonoScan

Benefits

- Suitable for liquid, solid and open channel/flow
- **A wide range of applications**
- Preprogrammed default settings
- **Simple to operate**
- Software configurable
- **reduces stock requirement**
- Ranges of up to 15m
- **Fits a variety of tanks**
- Simple to install



SmartScan 50

Product Description

- 2 part unit for up to 12m
- Rapid response and high reliability in challenging environments
- Used in liquid, solid, open channel and diameter
- 1 mm resolution (0.04 inch)

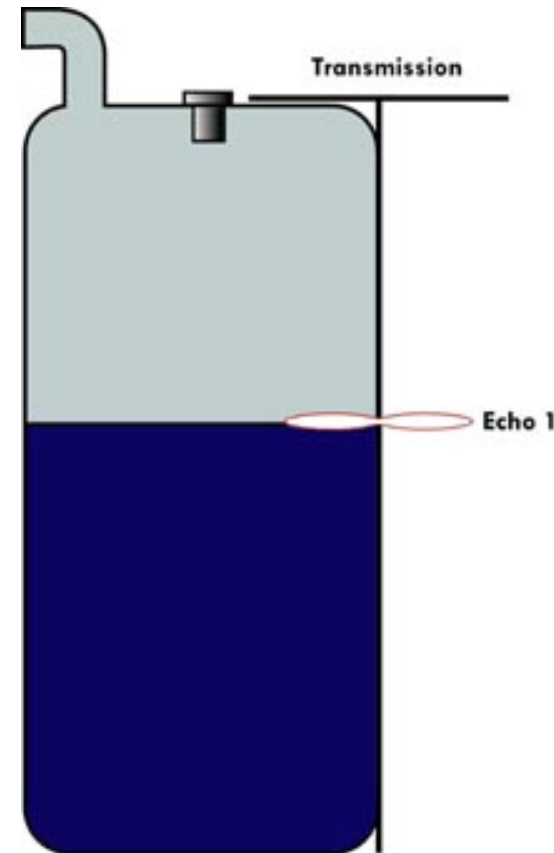


Smart Scan 50

50KHz transducer

- High energy transducer

After transmission the Transducer will detect the strongest echo from target. 50 KHz sensor is mostly suitable for flat surfaces or aggregates, where the achieved result will be more accurate.



SmartScan 50

Models

SmartScan 50 L For Liquid	SmartScan 50 S For Solid	SmartScan 50 D For Diameter	SmartScan 50 O For Open Channel
0.4 ÷ 12 m	0.4 ÷ 8.5 m	0.5 ÷ 2.5 m	0.4 ÷ 12 m



Smart Scan 50

Benefits

- Supplied with 4–20mA, 5 independent SPDT relays, RS - 232 or RS – 485
- High added value
- Embedded software configuration for advanced calculations: Volume Kg totalization and sum.
- Preprogrammed default settings
- Rapid response with high accuracy
- Single sensor version or Multi sensor version



Smart Scan 25

Product Description

- Extended range applications - Up to 40 meters / 131 ft
- Variety of sensors for each application
- No calibration or maintenance required
- 0.25% accuracy of measured range
- Resolution: 1 mm (0.04 inch)

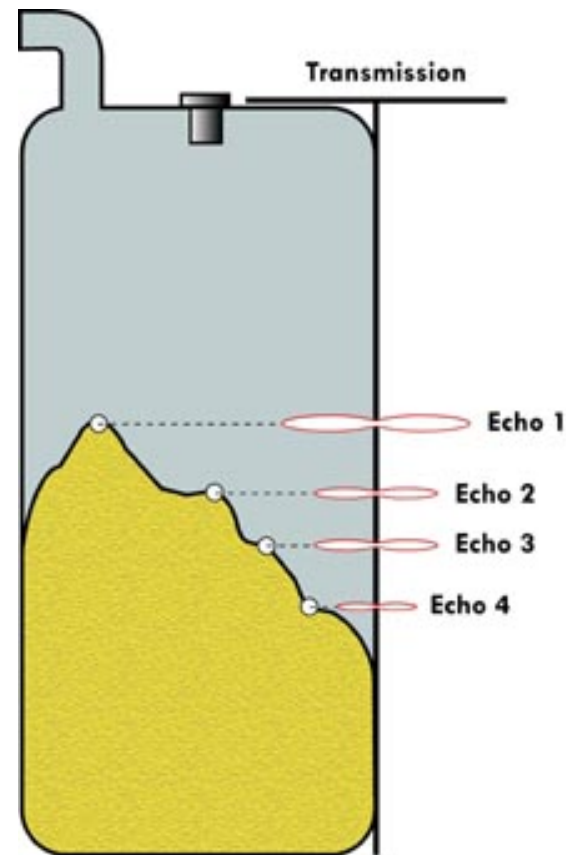


Smart Scan 25

25KHz transducers

- Low energy transducer

After transmission, the transducer will detect several echoes from the target. The statistical calculation will be based on these echoes, giving a more accurate average.



SmartScan 25

Models

	SmartScan 25 Standard (L,O,S)	SmartScan 25 Mid Range (L,O,S)	SmartScan 25 Long Range (L,O,S)
Liquid	0.6 ÷ 25 m	0.6 ÷ 30 m	0.6 ÷ 40m
Open Channel	0.6 ÷ 25 m	0.6 ÷ 30 m	0.6 ÷ 40m
Solid	0.6 ÷ 20 m	0.6 ÷ 30 m	0.6 ÷ 40 m



Smart Scan 25

Benefits

- Supplied with 4–20mA, 5 independent SPDT relays, RS-232 or RS-485
- High added value
- Embedded software configuration for advanced calculations Volume Kg and Totalization
- Accurate average calculations of uneven surfaces
- Light equipment
- Simple to install and easy to handle
- Single sensor version or Multi sensor version



SmartScan 25 and 50

Multi Sensors version

“Multi Sensors” enables the user to measure two or three different locations by means of a single electronic device.

Note:

Multi sensors version is not available for SmartScan 50 D



Multi Sensors version

2 Sensors

Multi Sensor 2 sensors version can be used in two vessels Measurement applications and/or "level differences" applications. This version gives you:

- 2 current output (4- 20 mA) – in which the data will switch from one output to another according to the Multi sensor reading cycle, or 1 current output (4- 20mA) for "level differences".
- One digital output (RS- 232 or RS- 485).



Multi Sensors version

3 Sensors

- Multi Sensor 3 sensors version is recommended where the customer needs a powerful electronic unit to support his application, speed of reading/result being less important. The electronic unit works on a loop cycle in which each sensor takes its time to complete the calculation cycle and give its result.

This version gives you:

- One current output (4 –20 mA), showing the actual current used by the actual “working” sensor (can be seen only on the display).
- One digital output (RS- 232 or RS- 485), which enables production of all the data that may be required, volume, Kg above usual data level, distance, etc.



SolidScan

Applications

- Chemical and Petrochemical
- Food and Beverage
- Water and Waste
- Power
- Pharmaceutical
- Mining, Quarrying, Minerals
- Pulp and Paper



SoltaScan

Spin-off of Advanced Defense Technology
Leads to a new generation of

Non-Contact Radar Level Gauging System

Developed by Elta Electronics, Israel's leading radar house, and a recognized innovator worldwide in ground, naval and airborne radars—including the radars for the ARROW Anti-Tactical Ballistic Missile (ATBM) System and the Phalcon Advanced Early Warning (AEW) reconnaissance and surveillance aircraft, as well as Small tactical portable radar.



SoltaScan I (for tank inventory)

Product Description

- Operates in the range of 0.3 to 50 meters (1 to 164 ft.)
- Level accuracy of better than 1mm.
- Local connectivity to other sensors, such as Temperature, Pressure, via 4-20 mA input channels.
- No calibration
- Zero maintenance



SoltaScan P (for process)

Product Description

- Operates in the range of 0.3 to 30 meters (1 to 98 ft.)
- Level accuracy of better than 5mm.
- Local connectivity to other sensors, such as Temperature, Pressure, via 4-20 mA input channels.
- No calibration
- Zero maintenance



SoltaScan

Benefits

- No Calibration
- Zero maintenance
- 30,000 MTBF
- Unbeatable accuracy and repeatability
- Easy to install and simple to operate



Summary

SolidScan Advantages

- Automatic adaptation to virtually all environments.
- Solutions for a range of process control and storage applications.
- Reliability and accuracy under extremely harsh conditions.
- Simple installation and operation.



Summary

SoltaScan Advantages

- Incorporating the know-how of a world's radar leader.
- Enhanced accuracy based on proprietary technologies.
- Designed for superior reliability and zero maintenance.
- Calibration free operation.
- Fully digital system with internet connectivity for control and reporting, using VPN (virtual private network).

