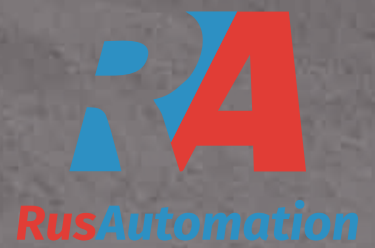# Gauger

Solid Applied Technologies

You Can Measure the Solid Benefits

The Solid Gauger Family

The proven SolidAT Gauger family has set new performance standards.

Continuing technological enhancements and features are meeting the most stringent performance and regulatory standards.

Sustainable accurate performance
Responsible environmental standards
Measurable repeatable rewards

Sustainable

When the SolidAT Gauger family was introduced, it set new standards with its integration of detection and communication technologies from mission critical applications.

Today, the SolidAT Gauger family continues to prove that highest performance and reliability is expressed in a value chain that extends from easy installation and minimal maintenance to a longer life cycle

Responsible

Environmental responsibility is far more than a catch phrase in a world where pollution is affecting every aspect of our lives and that of future generations. More and more nations and international organizations are setting increasingly stringent regulations.

The SolidAT Gauger family respects these standards by assuring the accurate, timely, fail-safe monitoring and early warning alerts

Measurable

For each party along the supply chain, the SolidAT Gauger family delivers measurable rewards. Offerings based on solid facts and track records, results proven in industries, public installations and areas, deliver reliable added value through consistent compliance and performance.

The Gauger Family

Gauger GSM
Gauger4-20

WHAT You Get

Advanced, proven ultrasonic measurement algorithm featuring:

- Very short "dead zone" of only 15 cm
- Process level tracking of up to 10 meters per minute
- Rapid recovery from interferences and excellent diagnostic tools at the field site
- Automated temperature compensation with two independent sensors
- Remote monitoring software and standard Modbus-TCP interface
- Measurement of multiple parameters: distance, level, volume, Open Channel Flow and temperature

WHY It Lasts

- Streamlined, rugged, minimal-maintenance mechanical structure
- Corrosion resistant PVDF sensor
- Electronics and firmware incorporating advanced design and state-of-the-art components

HOW You Choose

Choose Gauger GSM for projects and infrastructure:

Built-in cellular modem / Monitoring software application / open interface to third party web applications / SMS and GPRS: you decide.

Choose Gauger4-20 for industrial plants:

Supports 4-20mA output and HART protocol

YOU CAN ADD UP THE SOLID BENEFITS

Gauger *GSM*

Remote monitoring of sewers

Immediate alerts about sewage blockage and overflow conditions
Radically reduces damage - management costs and time
Ensures reliable operations, preserves property, and strengthens citizen satisfaction

Remote monitoring of water reservoirs and waterways

Continuous monitoring of large water tanks, reservoirs, rivers, lakes, dams, including flood alerts
Reduces environmental hazards, enables timely response to exceptional events

Remote monitoring of diesel tanks

Remote, unattended sites with diesel tank feeding generators
Supports uptime of critical services, such as cellular; Accounts for valuable energy assets

Always available, always reliable

Option for autonomous operation with external battery or solar power
Easy to install, no digging required, no cables, long battery lifetime and Zero maintenance

Gauger *GSM*

Measuring range

Maximum range for liquids	8 meter / 26'
Maximum range for solids	5 meter / 16'
Minimum range (dead zone)	15 cm / 6"

Accuracy – precision – resolution –tracking

Display accuracy	1.5mm / 0.3% of range
Display Precision (repeatability)	0.2% of measured range
Display resolution	1 mm
SMS/GPRS resolution	1 mm
Process tracking rate	10 meter per minute

Electrical and interface specifications

Power supply	8 to 33 VDC on GaugerGSM ports
Data interface	Serial COM over USB at 115,200bps
Display	64X128 Graphic LCD, 50 X 25mm2
Cellular communications	GSM Quad 850/900/1800/1900 MHz
Temperature sensor	Built in and external

Reports

Displayed and SMS/GPRS	Level, Distance, Volume, Temperature
Alerts sent by SMS/GPRS	Full, Empty, over consumption,
	Refill, Dry contact, Pre-configured levels

Mechanical and environmental

Operational temperature range	-20°C to +70°C (no display -30°C)
Enclosure material	Plastic PC/ABS+UV
Sensor material	PVDF
Sealing rating	IP65/IP67
	IP68 - 96 hours at 1.8 meter depth
Mounting threads	1.5" BSP or 1.5" NPT
Cable entries	Conduit ½"NPT
Weight	960 gram
Certifications	CE: EMC and Safety, FCC Part 15
	Ex II 1G, Ex ia IIB T4 Ga

YOU CAN ADD UP THE SOLID BENEFITS

Gauger*4-20*

Industrial capital equipment

Chemical plants
Petrochemical industries
Pharmaceutical and Agriculture-related applications
Wastewater treatment plants and desalination
Solids and liquids applications

Ensures compliance; radically reduces maintenance and monitoring costs; enables uninterrupted operations

Let us measure up to your standards

Gauger4-20

Measuring range

Maximum range for liquids	8 meter / 26'
Maximum range for solids	5 meter / 16'
Minimum range (dead zone)	15 cm / 6"

Accuracy – precision – resolution –tracking

Display accuracy	1.5mm / 0.3% of range
Display Precision (repeatability)	0.2% of measured range
Display resolution	1 mm
Process tracking rate	10 meter per minute
4-20 Accuracy	+/- 20µA (up to 5m/minute)

Electrical specifications

Power supply	18 to 33 VDC on **Gauger4-20** ports
Current consumption	4.0mA – 20mA
	3.6mA – 22mA for error settings
Loop current circuit	950Ω at 33VDC
Display	64X128 Graphic LCD, 50X25mm2
Temperature sensor	Built in and external

Reports

4-20 representation	Level, Distance, Volume, Fixed current
4-20 error indications options	3.6mA or 22mA or Hold Last Value

HART options

Enabled/ disabled and device address

Mechanical and environmental

Operational temperature range	-20°C to +70°C (no display -30°C)
Enclosure material	Plastic PC/ABS+UV
Sensor material	PVDF
Sealing rating	IP65/IP67
	IP68 - 96 hours at 1.8 meter depth
Mounting threads	1.5" BSP or 1.5" NPT
Cable entries	Conduit ½"NPT
Weight	960 gram
Certifications	CE: EMC and Safety, FCC Part 15
	(*) Ex II 1G, Ex ia IIB T4 Ga

Tested under controlled laboratory conditions.
Specification are subject to change without notice
(*) Pending

For over a decade, SolidAT has been driven by a culture of practical innovation, drawing on different technology domains to directly address operational and environmental challenges.

SolidAT's range of gauges, now installed worldwide, are protecting property and people, simply, affordably and reliably. They are supporting a sustainable environment, meeting increasingly stringent regulations.