

# 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 25mm <sup>2</sup>
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 <b>Gauger4-20</b> 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



*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.*

**We invite you to visit [www.solidAT.com](http://www.solidAT.com)  
for an introduction to our full range of  
products and applications**

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