



## ADS-410 Gen5 Sensor node

The Gen5 Network is the fabric connecting critical infrastructure devices with value-added applications. Itron has successfully architected the Gen5 Network to balance the stringent and competing demands of ubiquitous coverage, high performance, and cost efficiency.

The ADS-410 Gen5 Sensor node is a battery powered end node for the Gen5 Network. The device supports serial communications with digital sensors. Communication capabilities include the popular SDI-12 and MODBUS protocols. Additional digital and analog inputs and an internal battery gauge are included. It provides two excitation options for external sensors. The unit uses the Milli 5 module for the connectivity to the Gen5 Network.



## Features

- Periodical capture and data transmission of actual recordings to the utility for advanced analysis and applications.
- Alarm messages and periodical Health messages for verifying unit availability.
- Continuous battery gauging with respective data transfer.
- Scaling parameters and alarm limits are user definable.
- Remote configuration of the operation parameters.

## Applications

- Environmental monitoring
- Smart grid
- Weather monitoring
- Gas distribution
- Water resources management
- Smart Farming

## Technical Specifications

Internal supply	3.6V Lithium Thionyl battery
External supply	5V $\pm$ 2%
Supply current	Idle: 10 $\mu$ A max. Sampling: 2.7 mA Transmit: 48mA
Data memory	I2C EEPROM
Digital inputs	1, 0-30V, dry contact
Analog input	0-1V, 12bit
Counters	1, 2kHz
SDI-12	Up to 16 channels
MODBUS	RS-485, 8 channels
Sensor Excitation	12VDC, 250mA 5VDC, 200mA
Battery Gauge	0.17mAh resolution
Communication	GEN5, Milli5 module
Antenna	SMA Jack
Serial interface	USB, 115 kBit/s
Temperature	-40° ...65°C, operating
Dimensions	124 x 79.5 x 70 mm
Protection	IP66/68



Acknowledgement: Itron is a global technology company. Milli and Gen5 Networks are registered trademarks of Itron.

### Infinite Informatics Ltd

1, Valaoritou Street  
GR-54626 Thessaloniki, Greece  
T: +30-2310-553545, F: +30-2310-552006  
E: sales@indinf.gr  
W: www.infinite.com.gr

### Representative - Authorized dealer

