

Technical Specification

90024001\_2.0



# CCD 301



# Notes

- The modem is designed to be used with Xylem Cloud Services only and not as a stand-alone modem.
- Xylem reserves the right to remotely upgrade the software and configuration files in the modem. It is the Purchaser's responsibility to ensure that the modem is connected at all times to enable such upgrades.
- Xylem aims to provide mobile coverage where the modem is marketed but there is no guarantee from Xylem or obligation to ensure that cellular coverage exists in the Purchaser's location. It is the sole responsibility of the Purchaser to ensure adequate coverage in order for the modem to function properly at all times.
- The modem is delivered with a built-in SIM card. Xylem has roaming agreements with selected operators depending on geography, enabling the modem to transmit data. Xylem reserves the right to change these operators. This might have an effect on the connectivity of the modem. It is the responsibility of the Purchaser to ensure adequate connection of the modem at all times.
- It is the responsibility of the Purchaser to ensure that the modem fulfills the mobile standards in the location. This includes upgrading to a new modem if standards change over time, at Purchaser's sole cost.



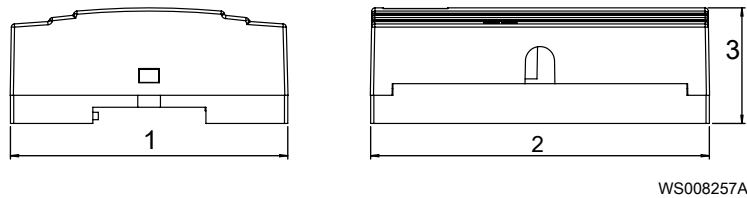
---

# Table of Contents

1	Technical Reference.....	2
1.1	Dimensions.....	2
1.2	Environmental requirements.....	2
1.3	Material.....	2
1.4	Approvals.....	2
1.5	Electrical data.....	2
1.6	Radio data.....	2
1.7	Terminals.....	3

# 1 Technical Reference

## 1.1 Dimensions



Part	Dimension
1	86 mm (3.4 in)
2	105 mm (4.1 in)
3	36 mm (1.4 in)

## 1.2 Environmental requirements

Feature	Value
Operating temperature	-30°C to +70°C (-22°F to +158°F)
Storage temperature	-10°C to +75°C (14°F to +167°F)
Operating humidity	95% relative humidity, non-condensing

## 1.3 Material

- UL94 V-0. Plastic materials

## 1.4 Approvals

- CE

## 1.5 Electrical data

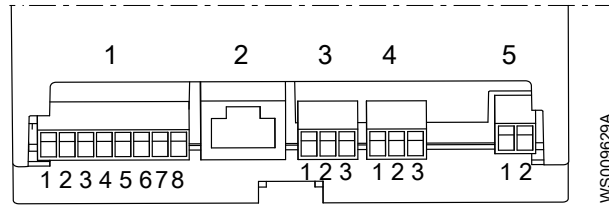
Feature	Description
Supply voltage	24 VDC
Current	Maximum 200 mA at 24 VDC
Degree of protection of enclosure	IP20
Internal battery	Li-ion, 2600 mAh

## 1.6 Radio data

The unit has a radio modem that supports the following bands:

Network	Frequency, band
3G	850/800, 900, 1900, and 2100
2G	850, 900, 1800, and 1900

## 1.7 Terminals



Connector number	Name	Terminal number	Description
1	Digital input	1	Digital input Active = 24VDC Inactive = 0VDC or not connected
		2	Ground (earth)
	Analog input	3	4-20 mA
		4	Ground (earth)
	Not used	5	Not used
		6	Not used
		7	Not used
		8	Not used
2	Ethernet	–	RJ45
3	RS-232	1	Rx, RTU Tx
		2	Tx, RTU Rx
		3	Ground (earth)
4	RS-485 with 120 ohm termination resistor	1	A
		2	B
		3	Ground (earth)
5	Input power	1	24VDC
		2	Ground (earth)

### Antenna

- SMA connector
- Maximum 10 m (32.8 ft) cable

# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com)**



Xylem Water Solutions Global  
Services AB 556782-9253  
361 80 Emmaboda  
Sweden  
Tel: +46-471-24 70 00  
Fax: +46-471-24 74 01  
<https://tpi.xylem.com>

Visit our Web site for the latest version of this document and more information  
The original instruction is in English. All non-English instructions are translations of the original instruction.  
© 2020 Xylem Inc.