

iDOL 64 LoRa Gateway



The idol 64 Wireless Gateway is the center point of the dol sensor monitoring solution. It receives sensor data and forwards it to the dol-sensor cloud service, where the data can be retrieved through the dol-sensors API.

idol 64 is available in 2 variants. One for wireless, LoRa-based sensor data and one that can also be connected to up to 4 analog sensors.

With the built-in modem, the Gateway can easily connect to the Internet and exchange data.

Features

It has the following features:

- Wireless LoRa 868 MHz EU-region
- Modem with SIM card 2G/3G/4G EU-region
- Analog sensor input 0-10 VDC (140327 only)

Sensors

The following wireless (LoRa) sensors are supported:

- idol 139 temperature, humidity and CO₂
- iDOL 53 ammonia
- iDOL 90 water watch

The following analog sensors are supported (requires 140327):

- DOL 139 temperature, humidity and CO₂
- DOL 53 ammonia
- DOL 51 ammonia

Product survey



140355 iDOL 64 Gateway modem wireless

Receives wireless, LoRa-based sensor data and forwards it to the dol-sensor cloud service.

Supplied with 2 m cable with plug.



140327 iDOL 64 Gateway modem wireless & analog

Receives wireless, LoRa-based and analog sensor data and forwards it to the dol-sensor cloud service.

4 pcs. standard M12 male with 5 pins.

Supplied with 2 m cable with plug.

Accessories wireless



140356 iDOL 139 Wireless LoRa 24 VDC

For measuring of carbon dioxide (CO₂) relative humidity and temperature.

Transmits data wirelessly.

Supplied with 2 meter power cable for 24 V DC and a protective cap.

To be used with iDOL 64 gateway.



140337 iDOL 139 power supply

For supply of 80-240 V AC.

**140352 iDOL 53 wireless LoRa**

Can be used for monitoring the ammonia level in the air.

Transmits data wirelessly.

Includes:

- DOL 53 ammonia sensor
- Lora converter with power supply
- Cable

To be used with iDOL 64 gateway.

**140353 idol 90 wireless LoRa**

idol 90 wireless LoRa is a wireless water meter for measuring water flow.

Transmits data wirelessly.

Nominal flow quantity = 1500 liter/hour

Max. flow quantity = 2500 liter/hour

Connection threads: ½"

To be used with iDOL 64 gateway.

Accessories analog

**140283 DOL 139 humidity, temperatur and CO2**

Sensor for measuring carbon dioxide/CO2, relative humidity and temperature.

Connects to idol 64 (140327) with a standard M12 female-female 5-pin cable.

**140312 DOL 51 Ammonia Sensor w/heat**

Can be used for monitoring the ammonia level in the air.



140247 DOL 53 ammonia sensor

140236 DOL 53 dust filter (5 pcs)

Can be used for monitoring the ammonia level in the air.

Connect with special cable (140365).



140365 Weipu to M12 cable for DOL53

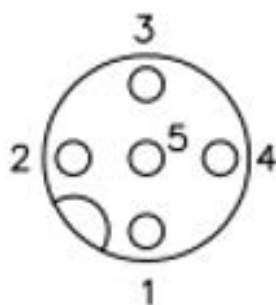
For connecting DOL 53 ammonia sensor to idol 64.

Technical data

		iDOL 64 Gateway	
Specification		Parameter	Unit
LoRa	LoRaWAN version	1.0.2	-
	Regional parameters version	Revision B	-
	Radio frequency plan	Europe – 863-870	Mhz
	Spreading factor	7–12 (Depends on noise and obstacles)	-
	Range	Up to 300 in livestock houses. (Depends on walls and installation height of sensor and gateway).	m
Modem	Network bands	2G (GSM) 3G (WCDMA) 4G (LTE)	-
	Region support	EU	-
	Micro-SIM card	Data card pre-installed	-
	Life SIM card	5	Year
	Max data limits per month	500	MB
Analog input	Number of inputs	12 analog inputs	-
	Number of ports	4 pcs M12 port	-
	Output supply	0–24 @ 200 mA per output Max 500 mA total for all outputs	V DC
Power supply	Voltage	100 - 240	V AC
	Unloaded current	13	W

		iDOL 64 Gateway	
	Current max load	25	W
Temperature, operation		-10 - +40	°C
Temperature, storage		-25 - +60	°C
Humidity, operation		10 - 90	%RH
IP classification		IP65	-
Dimensions LxWxH		378x201.5x81.6	mm
Packing dimensions LxWxH		315x250x180	mm
Weight		2000	g
Approvals		CE	-

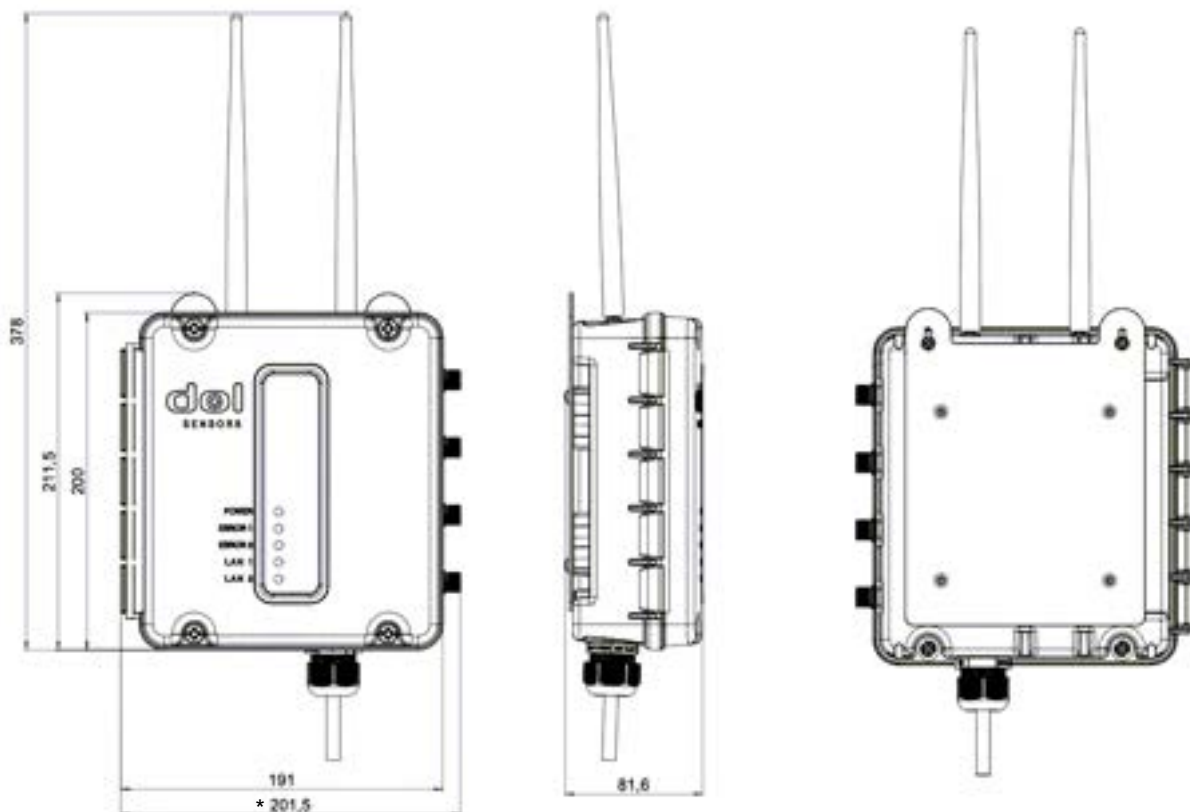
Connector connection



Pin connection in M12 plug	Analog signal	Color
Pin 1	24 V	Brown
Pin 2	Input 1	White
Pin 4	Input 2	Black
Pin 3	GND	Blue
Pin 5	Input 3	Gray

Dimensions

Dimensions in mm.



* iDOL 64 Gateway Modem Wireless & Analog