



Lacentralina modbus reference:

Lacentralina Modbus



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Document Title	Lacentralina Modbus
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Status / Issue:	1.3
Date Last Change:	14/10/2020 06:45:00

Document History:	
17 /02/20	Added access parameter for first release



1 Introduction

This document reports specification and description for @Grisù Lacentralina Modbus interface.



2 Modbus

2.1 HW

RS485 connector under the bottom side.

2.2 Protocol

Modbus RTU: Serial connection 8N1, no flow control

Default:

Address 3

Baudrate 19200

Address and baudrate can be set on the main Lacentralina config menu (the same used for the wifi configuration).

2.3 Data

Lacentralina updates all the parameters measurements each 5 minutes. Such data can be read by asking for holding register Integer read (modbus Function 3).

The read integer data shall be divided by a suitable coefficient accordingly to the measurement, in order to get the decimals.

Register	Value	Coefficient value must be divided by .	Notes
Reg 0	Vibration	N/A	<ul style="list-style-type: none"> • 0 - standard measurement • 1 - Vibration detected
Reg 1	Temperature	100	Celsius degree
Reg 2	humidity	100	%
Reg 3	absolutePressure	10	hPa
Reg 4	relativePressure	10	hPa
Reg 5	lightIntensity	10	LUX
Reg 6	soundIntensity	100	dBA

Reg 7	vocCO2	10	VOC equivalent CO2 measurement in ppm
Reg 8	vocT	10	VOC measurement in ppb
Reg 9	CO	100	ppm
Reg 10	NO2	100	ppm
Reg 11	NH3	100	ppm
Reg 12	O3	100	ppb
Reg 13	Specific CO2	10	Specific CO2 measurement in ppm
Reg 14	PM1	10	ug/m ³
Reg 15	PM2.5	10	ug/m ³
Reg 16	PM4	10	ug/m ³
Reg 17	PM10	10	ug/m ³
Reg 18	Magneto	10	Composite magnetometer measurement mT
Reg 19	0	N/A	Dummy value