

CS CE Modbus Protocol

Setup via Modbus RTU for Transmitters. Supported function codes, Registers table and examples.

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6. Holding Registers Table

6-1 Device information

No.	Register Address	Starting Address	Content	R/W	Data Bytes	Data Type	Value/Unit
1	40033	0x20	Model Name	R	16 bytes	ASCII	
2	40049	0x30	Serial Number	R	16 bytes	ASCII	
3	40065	0x40	Firmware version	R	16 bytes	ASCII	

6-2 RS485 parameters

No.	Register Address	Starting Address	Content	R/W	Data Bytes	Data Type	Value/Unit
1	40081	0x50	Slave ID	R/W	1 byte	unsigned Integer	1 ... 247
2	40083	0x52	Baud rate	R/W	1 byte	unsigned Integer	0: 9600 1: 19200 2: 38400 3: 57600 4: 115200
3	40085	0x54	Data type	R/W	1 byte	unsigned Integer	0: N81 1: N82 2: E81 3: E82 4: O81 5: O82
4	40087	0x56	Unit	R/W	1 byte	unsigned Integer	0: Metric 1: Imperial

6-3 Physical Quantities (IEEE 754 Floating Pt)

No.	Register Address	Starting Address	Content	R/W	Data Bytes	Data Type	Value/ Unit
1	41025	0x400	Temperature	R	4 bytes	Floating Pt.	°C, °F
2	41029	0x404	Relative Humidity	R	4 bytes	Floating Pt.	%
3	41033	0x408	Dew Point Temperature	R	4 bytes	Floating Pt.	°C, °F
4	41037	0x40C	*Dew/Frost Point Temperature	R	4 bytes	Floating Pt.	°C, °F
5	41041	0x410	Wet Bulb Temperature	R	4 bytes	Floating Pt.	°C, °F
6	41045	0x414	Vapor Pressure	R	4 bytes	Floating Pt.	mbar, psi
7	41049	0x418	Mixture Ratio	R	4 bytes	Floating Pt.	g/kg, gr/lb
8	41053	0x41C	Absolute Humidity	R	4 bytes	Floating Pt.	g/m ³ , gr/ft ³
9	41057	0x420	Specific Enthalpy	R	4 bytes	Floating Pt.	kJ/kg, BTU/lb
10	41061	0x424	PPMv	R	4 bytes	Floating Pt.	ppm
11	41065	0x428	PPMw	R	4 bytes	Floating Pt.	ppm
12	41073	0x430	Dew/Frost Point Temperature, converted to atmospheric pressure	R	4 bytes	Floating Pt.	°C, °F
13	41077	0x434	Pressure, absolute	R	4 bytes	Floating Pt.	bar, psi

*When the dew point is below 0 °C, the transmitter outputs frost point temperature

6-4 Physical Quantities (16-bit integer)

Values are stored with a scaling of 1:100 (e.g.: 2230 is equivalent to 22.3 °C)

If any value of reading is exceed 65535, please use 32-bit integer format

No.	Register Address	Starting Address	Content	R/W	Data Bytes	Data Type	Value/ Unit
1	41091	0x442	Temperature	R	2 bytes	16-bit integer	°C, °F
2	41095	0x446	Relative Humidity	R	2 bytes	16-bit integer	%
3	41099	0x44A	Dew Point Temperature	R	2 bytes	16-bit integer	°C, °F
4	41103	0x44E	*Dew/Frost Point Temperature	R	2 bytes	16-bit integer	°C, °F
5	41107	0x452	Wet Bulb Temperature	R	2 bytes	16-bit integer	°C, °F
6	41111	0x456	Vapor Pressure	R	2 bytes	16-bit integer	mbar, psi
7	41115	0x45A	Mixture Ratio	R	2 bytes	16-bit integer	g/kg, gr/lb
8	41119	0x45E	Absolute Humidity	R	2 bytes	16-bit integer	g/m ³ , gr/ft ³
9	41123	0x462	Specific Enthalpy	R	2 bytes	16-bit integer	kJ/kg, BTU/lb
10	41127	0x466	PPMv	R	2 bytes	16-bit integer	ppm
11	41131	0x46A	PPMw	R	2 bytes	16-bit integer	ppm
12	41135	0x46E	Dew/Frost Point Temperature, converted to atmospheric pressure	R	2 bytes	16-bit integer	°C, °F
13	41139	0x472	Pressure, absolute	R	2 bytes	16-bit integer	bar, psi

*When the dew point is below 0 °C, the transmitter outputs frost point temperature

6-5 Physical Quantities (32-bit integer)

Values are stored with a scaling of 1:100 (e.g.: 2230 is equivalent to 22.3°C)

No.	Register Address	Starting Address	Content	R/W	Data Bytes	Data Type	Value/ Unit
1	41089	0x440	Temperature	R	4 bytes	32-bit integer	°C, °F
2	41093	0x444	Relative Humidity	R	4 bytes	32-bit integer	%
3	41097	0x448	Dew Point Temperature	R	4 bytes	32-bit integer	°C, °F
4	41101	0x44C	Dew/Frost Point Temperature	R	4 bytes	32-bit integer	°C, °F
5	41105	0x450	Wet Bulb Temperature	R	4 bytes	32-bit integer	°C, °F
6	41109	0x454	Vapor Pressure	R	4 bytes	32-bit integer	mbar, psi
7	41113	0x458	Mixture Ratio	R	4 bytes	32-bit integer	g/kg, gr/lb
8	41117	0x45C	Absolute Humidity	R	4 bytes	32-bit integer	g/m ³ , gr/ft ³
9	41121	0x460	Specific Enthalpy	R	4 bytes	32-bit integer	kJ/kg, BTU/lb
10	41125	0x464	PPMv	R	4 bytes	32-bit integer	ppm
11	41129	0x468	PPMw	R	4 bytes	32-bit integer	ppm
12	41133	0x46C	Dew/Frost Point Temperature, converted to atmospheric pressure	R	4 bytes	32-bit integer	°C, °F
13	41137	0x470	Pressure, absolute	R	4 bytes	32-bit integer	bar, psi

*When the dew point is below 0 °C, the transmitter outputs frost point temperature