

# Appendix: RS485 communication protocol

variable name	Register address	Register length	Instruction code	Data type
Instantaneous flow	0X01-0X02	0X02	0X04	Floating point
Instantaneous flow unit	0X03	0X01	0X04	Integer
Total	0X04-0X07	0X04	0X04	Double precision
Total unit	0X08	0X01	0X04	Integer
temperature	0X09-0X0a	0X02	0X04	Floating point
pressure	0X0b-0X0c	0X02	0X04	Floating point
Total amount (the unit is m <sup>3</sup> to allow writing, write 0 to clear the total amount)	0X0d-0X0e	0X02	0X03 0X04	Floating point
Continuous reading of floating-point numbers (32-bit floating-point numbers, low 16 bits first)				
Instantaneous flow	0X14-0X15	0X02	0X04	Floating point
Total	0X16-0X17	0X02	0X04	Floating point
temperature	0X18-0X19	0X02	0X04	Floating point
pressure	0X1a-0X1b	0X02	0X04	Floating point
Continuous reading of floating point numbers (32-bit floating point numbers, high 16 bits first)				
Instantaneous flow (40031-40032)	0X1e-0X1f	0X02	0X04	Inverted floating point
Total amount (40033-40034)	0X20-0X21	0X02	0X04	Inverted floating point
Temperature (40035-40036)	0X22-0X23	0X02	0X04	Inverted floating point
Pressure (40037-40038)	0X24-0X25	0X02	0X04	Inverted floating point

One of the above definitions can be selected. The latter two groups are continuous reading of multiple parameters. The first group can read all parameters.

## Unit definition

	Unit	Code	Unit	Code
Instantaneous flow	Nm <sup>3</sup> /h	0x00	usg/h	0x09
	Nm <sup>3</sup> /m	0x01	usg/m	0x0a
	Nm <sup>3</sup> /s	0x02	usg/s	0x0b
	m <sup>3</sup> /h	0x03	kg/h	0x0c
	m <sup>3</sup> /m	0x04	kg/m	0x0d
	m <sup>3</sup> /s	0x05	kg/s	0x0e
	L/h	0x06	t/h	0x0f
	L/m	0x07	t/m	0x10
	L/s	0x08	t/s	0x11
	Total	Nm <sup>3</sup>	0x00	
m <sup>3</sup>		0x01		
L		0x02		
usg		0x03		
kg		0x04		
Temperature	t	0x05		