Modbus Protocol

eyc-tech DPM05

Flow computer

Holding Registers of DPM05

Table 1 Corresponding Holding Register Addresses of Command 03 and 16, and there are 75 parameters in total.

No.	Register Address (Decimal System)	Parameter Name	Data Format	Type	Remarks
Dynamic Variables					
1	00	Measured value of temperature	Float	Read only	
2	02	Measured value of pressure	Float	Read only	
3	04	Measured value of flow	Float	Read only	
4	06	Instantaneous flow	Float	Read only	
5	10	Integral part of accumulative flow	Long	Read only	
6	12	Decimal part of accumulative flow	Float	Read only	
7	14	Integral part of accumulative heat energy	Long	Read only	
8	16	Decimal part of accumulative heat energy	Float	Read only	
9	22	First alarm status	Char	Read only	0: No alarm; 1: Alarm
10	23	Second alarm status	Char	Read only	0: No alarm; 1: Alarm
Instrument Configuration Parameters					
1	30	Set password LoC	Short	Read-write	See Primary Menu in Instrument Operating Manual
2	31	First alarm value	Float	Read-write	
3	33	Second alarm value	Float	Read-write	
4	35	First alarm return difference	Float	Read-write	
5	37	Second alarm return difference	Float	Read-write	
6	39	Compensation factor K1	Float	Read-write	

7	41	Compensation factor K2	Float	Read-write	
8	43	Compensation factor K3	Float	Read-write	
9	45	Compensation factor K4	Float	Read-write	
10	47	Density coefficient A1	Float	Read-write	
11	49	Density coefficient A2	Float	Read-write	
12	51	Density ρ in working condition	Float	Read-write	
13	53	Density ρ0 at STP	Float	Read-write	
14	55	Temperature in working condition	Float	Read-write	
15	57	Pressure in working condition	Float	Read-write	
16	59	PV display content	Char	Read-write	
17	61	Formulaic Model	Char	Read-write	See Secondary Menu in Instrument Operating Manual
18	62	First alarm mode	Char	Read-write	
19	63	Second alarm mode	Char	Read-write	
20	64	Flow choice	Char	Read-write	
21	65	Equipment No.	Char	Read-write	
22	66	Communication baud rate	Char	Read-write	
23	67	Time unit of instantaneous flow	Char	Read-write	
24	68	Number of decimal points of accumulative flow	Char	Read-write	
25	69	Number of decimal	Char	Read-	

		points of instantaneous flow		write	
26	73	Number of decimal points of temperature	Char	Read-write	
27	74	Number of decimal points of pressure	Char	Read-write	
28	75	Number of decimal points of flow	Char	Read-write	
29	76	Filter coefficient of instantaneous flow	Char	Read-write	
30	77	Signal type of temperature	Char	Read-write	
31	78	Signal type of pressure	Char	Read-write	
32	79	Signal type of flow	Char	Read-write	
33	80	Zero transport of temperature	Float	Read-write	
34	82	Ratio transport of temperature	Float	Read-write	
35	84	Zero transport of pressure	Float	Read-write	
36	86	Ratio transport of pressure	Float	Read-write	
37	88	Zero transport of flow	Float	Read-write	
38	90	Ratio transport of flow	Float	Read-write	
39	92	Zero transport of first transmitting	Float	Read-write	
40	94	Ratio transport of first transmitting	Float	Read-write	
41	96	Zero transport of second transmitting	Float	Read-write	
42	98	Ratio transport of second	Float	Read-write	

		transmitting			
43	100	Lower-limit of transmitting output range	Float	Read-write	
44	102	Upper-limit of transmitting output range	Float	Read-write	
45	104	Atmospheric pressure in working condition	Float	Read-write	
46	106	Lower-limit of temperature range	Float	Read-write	
47	108	Upper-limit of temperature range	Float	Read-write	
48	110	Lower-limit of pressure range	Float	Read-write	
49	112	Upper-limit of pressure range	Float	Read-write	
50	114	Lower-limit of flow range	Float	Read-write	
51	116	Upper-limit of flow range	Float	Read-write	
52	118	Small signal elimination of flow	Float	Read-write	
53	120	Temperature unit	Char	Read-write	
54	121	Pressure unit	Char	Read-write	
55	122	Flow unit	Char	Read-write	
56	123	Instantaneous flow unit	Char	Read-write	
57	127	Compensation mode of flow coefficient	Char	Read-write	
58	128	Temperature input mode	Char	Read-write	
59	129	Pressure input	Char	Read-	

		mode		write	

Note: Floating-point data is arranged in 2143 format.