register	Numbers of register	Variable name	Data type	discription
0001-0002	2	Instant flow rate	REAL4	unit : m^3/hour
0003-0004	2	Instant heat flow rate	REAL4	unit : GJ/hour
0005-0006	2	fluid velocity	REAL4	unit : m/s
0007-0008	2	measuring sound velocity of fluid	REAL4	unit : m/s
0009-0010	2	positive totaliser flow	LONG	all the flow totalisers that use long integers,its measure is controlled by M32(REG1438)
0011-0012	2	positive totaliser flow decimal part	REAL4	REAL4 is standard IEEE-754 format float floating point.the format data is also called FLOAT format.
0013-0014	2	negative totaliser flow	LONG	Long integers is lower digit in front and with character
0015-0016	2	Negative totaliser flow decimal part	REAL4	
0017-0018	2	positive totaliser heat quantity	LONG	all the heat quantity totalisers that use long integers,its measure is controlled by M84(REG1441)
0019-0020	2	positive totaliser heat quantity decimal part	REAL4	
0021-0022	2	negative totaliser heat quantity	LONG	
0023-0024	2	negative totaliser heat quantity decimal part	REAL4	
0025-0026	2	net totaliser flow	LONG	
0027-0028	2	net totaliser decimal part	REAL4	
0029-0030	2	net totaliser heat quantity	LONG	
0031-0032	2	net totaliser heat quantity decimal part	REAL4	

0033-0034	2	temperature 1/supplying water temperature	REAL4	unit：℃
0035-0036	2	Temperature 2/return water temperature	REAL4	unit：℃
0037-0038	2	analogue input AI3 value	REAL4	converted dimensionless data
0039-0040	2	Analogue input AI4 value	REAL4	converted dimensionless data
0041-0042	2	Analogue input AI5 value	REAL4	converted dimensionless data
0043-0044	2	Analogue input AI3 current value	REAL4	unit：mA
0045-0046	2	Analogue input AI4 current value	REAL4	unit：mA
0047-0048	2	Analogue input AI5 current value	REAL4	unit：mA
0049-0050	2	system setup password	BCD	writable。00H represents to cancel password setup
0051	1	hardware setup password	BCD	writable。“A55Ah” represents openning
0053-0055	3	date and time of the instrument	BCD	writable。6 byte BCD respectively represent second ,minute,hour,date,month,year,lower bit is in front.
0056	1	automaticaly store data day,hour	BCD	writable。2 byte represent scheduled storage data starting time and day,for example:0312H represent the storage datas of the third day and the twelve O’clock each month.0012H represents storage datas of the twelve O’clock each day.
0059	1	input key value(analogue keyboard)	INTEGER	writable.refer to manual key value list.

0060	1	make screen display x number Menu	INTEGER	writable。
0061	1	input backlit light time	INTEGER	writable。unit:second
0062	1	Buzzer’ beeping times left	INTEGER	writable。The mostly 255 times
0062	1	OCT pulse number left	INTEGER	writable。The mostly 65536
0072	1	instrument work error code	BIT	16 bit respectively represents following meanings in remark 4
0077-0078	2	supply water resistor number	REAL4	unit:ohm
0079-0080	2	return water resistor number	REAL4	unit:ohm
0081-0082	2	total transfer time of ultrasonic	REAL4	Unit:ms
0083-0084	2	ultrasonic transfer time difference	REAL4	Unit:ns
0085-0086	2	ultrasonic upstream trasfer time	REAL4	Unit:ms
0087-0088	2	ultrasonic downstream transfer time	REAL4	Unit:ms
0089-0090	2	present current loop output current value	REAL4	unit:mA
0092	1	Work procedure and signal quality	INTEGER	high byte represents signal adjustment step,low byte represents signal quality,data range:0-9,high data represent good signal
0093	1	upstream signal strenghth	INTEGER	Data range:0-4095
0094	1	downstream signal strenghth	INTEGER	Data range:0-4095
0096	1	operating interface language type	INTEGER	0 represent Chinese，1 represent English

0097-0098	2	ultrasonic signal transit ratio	REAL4	Normal range:100+-3%
0099-0100	2	present reynolds number	REAL4	
0101-0102	2	present reynolds correction coefficient	REAL4	
0103-0104	2	work timer time	LONG	no character,unit:s
0105-0106	2	total work time	LONG	no character,unit:s
0105-0106	2	total power on times	LONG	no character
0113-0114	2	net totaliser flow(floating point format)	REAL4	unit:m^3,7 significance digit
0115-0116	2	Positive totaliser flow(floating point format)	REAL4	unit:m^3,7 significance digit
0117-0118	2	negative totaliser flow(floating point format)	REAL4	unit:m^3,7 significance digit
0119-0120	2	net totaliser heat quantity(floating point format)	REAL4	Unit:GJ, 7 significance digit
0121-0122	2	positive totaliser heat quantity(floating point format)	REAL4	Unit:GJ, 7 significance digit
0123-0124	2	negative totaliser heat quantity(floating point format)	REAL4	Unit:GJ, 7 significance digit
0125-0126	2	today total flow(floating point format)	REAL4	unit:m^3, 7 significance digit
0127-0128	2	this month total flow(floating point format)	REAL4	unit:m^3, 7 significance digit
0129-0130	2	manual total flow	LONG	

0131-0132	2	manual totaliser decimal part	REAL4	
0133-0134	2	batch controller total flow	LONG	
0135-0136	2	batch controller decimal part	REAL4	
0137-0138	2	today total flow	LONG	
0139-0140	2	today total flow decimal part	REAL4	
0141-0142	2	this month total flow	LONG	
0143-0144	2	this month total flow decimal part	REAL4	
0145-0146	2	this year total flow	LONG	
0147-0148	2	this year total flow decimal part	REAL4	
0158	1	display present Menu	INTEGER	
0165-0166	2	running time with trouble	LONG	Unit:s
0173-0174	2	present frequency output value	REAL4	unit : Hz
0175-0176	2	present current loop output value	REAL4	unit : mA
0181-0182	2	Present temperature difference	REAL4	unit : ℃
0183-0184	2	replenished flow by this power on	REAL4	unit:m^3
0185-0186	2	frequency coefficient	REAL4	Lower than 0.1
0187-0188	2	total automatically store time	LONG	storage time is determined by register 0056
0189-0190	2	automatically store positive totaliser flow	REAL4	storage time is determined by register 0056

0191-0192	2	automatically store instant flow	REAL4	storage time is determined by register 0056
0221-0222	2	inside pipe diameter	REAL4	Unit:mm
0229-0230	2	upstream transfer delayed	REAL4	Unit:μs
0231-0232	2	downstream transfer delayed	REAL4	Unit:μs
0233-0234	2	estimated total transfer time	REAL4	Unit:μs
0257-0288	32	monitor buffer area	BCD	readable
0289	1	monitor buffer area storage pointer	INTEGER	
0311	2	worked time of today	LONG	no character,unit:s
0313	2	worked time of this month	LONG	no character,unit:s
0315	2	today Max instant flow	INTEGER	unit： m3/h
0317	2	this month Max instant flow	INTEGER	Unit： m3/h
1437	1	present instant flow measuring unit	INTEGER	Data range:0-31(remark 5)
1438	1	present totaliser flow measuring unit	INTEGER	Data range:0-7(remark 1)
1439	1	present totaliser flow multiplier factor	INTEGER	n: range 0-7, (remark 1)
1440	1	present totaliser heat quantity multiplier factor	INTEGER	n:range 0-10, (remark 1)
1441	1	present heat energy measuring unit	INTEGER	Range :0～3。0=GJ， 1=Kcal 2=KWh， 3=BTU

1442	1	instrument communication address number	INTEGER	
1491	1	instrument types	INTEGER	BIT0=0 represent flow meter BIT0=1 represent heat meter BIT3=1 represent heat meter installed on supply water pipe BIT3=0 represent heat meter installed on return water pipe
1451	2	user scaling factor	REAL4	
1521	2	factory scaling factor	REAL4	unmodifiable
1529	2	equipment electronic serial number	BCD	this equipment electronic serial number high bit is in front.