		Programming Menu	
	M00	Display window	
		POS (positive), NEG (negative) and NET (net) totalizer values.	
		Signal strength for both the sensors, signal quality and working status	
	M01	Display window	
		Totalizer(positive), Flow rate, Velocity,	
		Signal strength for both the sensors, signal quality and working status	
	M02	Display window	
		Totalizer(negative), Flow rate, Velocity,	
<u></u>		Signal strength for both the sensors, signal quality and working status	
0	M03	Display window	
		Totalizer(net), Flow rate, Velocity,	
Display only		Signal strength for both the sensors, signal quality and working status	
	M04	Display window	
		Date, Time, Flow rate,	
		Signal strength for both the sensors, signal quality and working status	
	M05	Display window	
		Date, Time, Velocity,	
	1400	Signal strength for both the sensors, signal quality and working status	
	M06	Display window: the wave shape of the receiving signal	
	M07	Display window: the battery terminal voltage and its estimated lasting time	
	M08	Display window: Detailed working status, signal strength, signal quality	
	M09	Display window: Today's total	
	M10	Outer perimeter of the pipe (C= 2π r) If the diameter is entered in M11correctly,	
		perimeter will be automatically calculated. Example: r=100mm,Perimeter =314.16mm.	
	M11	Outer diameter of the pipe; Valid range: 0 to 6000mm.	
	M12	Pipe wall thickness	
	M13	Inner diameter of the pipe. If pipe outer diameter and wall thickness are entered	
		correctly, the inner diameter will be calculated automatically, thus no need to change	
		anything in this window.	
menu	M14	Window for selecting pipe material.	
		Standard pipe materials (no need to enter the material sound speed) include:	
e		(0) carbon steel (1) stainless steel (2) cast iron (3) ductile iron (4) copper (5) PVC (6)	
		aluminum (7) asbestos (8) fiberglass	
bu	M15	Window for entering the sound speed of non-standard pipe materials	
<u> </u>	M16	Window for selecting the liner material. Select none for pipes without any liner.	
L Ř		Standard liner materials (no need to enter liner sound speed) include: (0) No Liner	
s s		(1) Tar Epoxy (2) Rubber (3) Mortar (4) Polypropylene (5) Polystryol (6) Polystyrene (7)	
		Polyester (8) Polyethylene (9) Ebonite (10) Teflon	
ţi,	M17	Sound speed of non-standard liner materials	
Initial setti	M18	Liner thickness (window not seen if (0) No Liner is chosen in M16)	
	M19	Roughness coefficient of the pipe inner surface	
	M20	Window for selecting fluid type	
		For standard liquids (no need to enter liquid sound speed) include:	
1			
		(0) Water (1) Sea Water (2) Kerosene (3) Gasoline (4) Fuel oil (5) Crude Oil (6) Propage at -45°C (7) Butage at 0°C (8)Other liquids (9) Diesel Oil (10)Caster Oil	
		Propane at -45°C (7) Butane at 0°C (8)Other liquids (9) Diesel Oil (10)Caster Oil	
		Propane at -45°C (7) Butane at 0°C (8)Other liquids (9) Diesel Oil (10)Caster Oil (11)Peanut Oil (12) #90 Gasoline (13) #93 Gasoline (14) Alcohol (15) Hot water at	
	M01	Propane at -45°C (7) Butane at 0°C (8)Other liquids (9) Diesel Oil (10)Caster Oil (11)Peanut Oil (12) #90 Gasoline (13) #93 Gasoline (14) Alcohol (15) Hot water at 125°C	
	M21 M22	Propane at -45°C (7) Butane at 0°C (8)Other liquids (9) Diesel Oil (10)Caster Oil (11)Peanut Oil (12) #90 Gasoline (13) #93 Gasoline (14) Alcohol (15) Hot water at	

Programming Menu

	1400		
	M23	Window for selecting transducer type	
		There are 14 different types of transducers for selection.	
		(0) Clamp-on M2;(1) Plug-in Type A;(2) Clamp-on TM1;(3) User Type;(4) Clamp-on L2;	
		(5) Plug Type B45;(6) Standard-L;(7) Clamp-on TS2;(8) Standard-M1;(9) Plug-in	
ן ב		TypeC; (10) Standard -HS;(11) Standard -HM;(12) Standard - S1;(13) π pipe;(14)	
menu		Standard L1;	
Ē		If the π type spool-piece transducers are used, the user needs to configure the 3	
		transducer parameters.Otherwise, the user needs to configure the 4 transducer	
<u> </u>		parameters.	
E E	M24	Transducer mounting methods 4 methods can be selected: (0) V-method (1) Z-method	
Initial setting		(2) N-method (3) W-method	
	M25	Transducer mounting spacing or distance (this is a display window - instruction for the	
tie		spacing)	
, Z	M26	Entry to store the pipe parameters into the internal NVRAM (non-volatile memory)	
-	M27	Entry to read the previously saved pipe parameters and load them	
	M28	Entry to determine whether or not to keep the last correct value when poor signal	
		condition occurs. YES is the factory default	
	M29	Window to set the threshold below which the receiving signal is defined as poor. Valid	
		number: from 000 to 999. 0 is the factory default. Empty pipe set up	
	M30	Window for selecting unit system. 'Metric' is the factory default. The conversion from	
		English to Metric or vice versa will not affect the unit for totalisers.	
	M31	Window for selecting flow rate unit.	
		(0). Cubic meter (m3) 1. Liter (I) 2. USA gallon (gal) 3. Imperial Gallon (igl) 4. Million	
		USA gallon (mgl) 5. Cubic feet (cf) 6. USA liquid barrel (bal) 7. Imperial liquid barrel (ib)	
		8. Oil barrel (ob); The flow unit in terms of time can be per day, per hour, per minute or	
5		per second. So there are 36 different flow rate units in total for selection.	
menu	1400		
ue l	M32	Window for selecting the totalisers' unit.	
		(0). Cubic meter (m3) 1. Liter (I) 2. USA gallon (gal) 3. Imperial Gallon (igl) 4. Million	
l c		USA gallon (mgl) 5. Cubic feet (cf) 6. USA liquid barrel (bal) 7. Imperial liquid barrel (ib)	
setting	M33	8. Oil barrel (ob); Window for setting the totaliser multiplying factor The multiplying factor ranges from	
e l	10133		
S (M34	Turn on or turn off the NET totaliser	
nits	M35	Turn on or turn off the POS totaliser	
2	M36	Turn on or turn off the NEG totaliser	
	M37	(1) Totaliser reset (2) Restore the factory default settings.	
		No / Yes: If Yes => None, All, NET Totaliser, POS Totaliser, NEG Totaliser.	
		If All is selected you can do the master erase by pressing the dot key followed by the	
		backspace key. Attention, it is recommended to make notes on the parameters before	
		doing the restoration.	
	M38	Manual totaliser used for calibration. Press any key to start and press the key again to	
	10100	stop the totaliser.	
	M39	Language selection, Chinese or English.	
	M40	Flow rate damper setup. The damping parameter ranges from 0 to 999 seconds. 0	
b		means there is no damping. Factory default is 3 seconds.	
ti	M41	Zero flow rate (or low flow rate) cut-off to avoid invalid accumulation. Factory default is 0	
Optional setting menu		m/s.	
าน จ	M42	Zero point setup. Make sure the liquid in the pipe is not running while doing this setup.	
nal s men			
	M43	Clear the zero point value, and restore the factory default zero point. Reset zero	
Ę	M44	Set up a flow bias. Generally this value should be 0 m3/h.	
d	M45	Flow rate scale factor. The factory default is '1'. Keep this value as '1' when no	
U U		calibration has been made.	
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Total 13(0DH, carriage return), 10 (0AH, line feeding), 42 (2AH), 38, 65535. Every set of the instrument in a network environment should have a unique IDN. Please refer to the chapter for communications. Factory default is 88 M47 System lock to avoid modification of the system parameters M48 Not used M49 Window for network communication test M50 Window to set up the schedule for the schedule-based data saving Start : xx:xx:xx interval : 00:00:05 Ge On : xx:xx:x Interval : 00:00:05 Ge On : xx:xx:x Interval : 00:00:05 I : O & Buffer Selected, the data will be directed to the S-323 interface If 'To buffer ' is selected, the data will be directed to the RS-323 interface If 'To buffer ' is selected, the data will be stored into the built-in logger memory Allow user to clear data buffer 0 : To RS 232 1 : To Buffer M53 Logger buffer : If unctions as a file editor. Use Dot, backspace UP and DN keys to browse the buffer. If the logger is ON, the viewer will automatically refresh once new data are stored M64 Not used M55 M65 Not used M66 M66 Not used M66 M67 Not used M66 M68 Not used M66 M69 Not used M		140	Network address identification number (IDN). Any internet can be antered assent	
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M70 LCD display backlight control. The entered value indicates how many seconds the backlight will be on with every key pressing.		M69	Window to set up the maximum flow rate which corresponds to the upper frequency	
backlight will be on with every key pressing.			limit of the frequency output	
		M70	LCD display backlight control. The entered value indicates how many seconds the	
M71 LCD contrast control. The LCD will become darker when a small value is entered.			backlight will be on with every key pressing.	
		M71	LCD contrast control. The LCD will become darker when a small value is entered.	
M72 Working timer. It can be reset by pressing ENT key, and then select YES.		M72	Working timer. It can be reset by pressing ENT key, and then select YES.	
M73 Alarm #1 lower threshold setup. Below this threshold the #1 Alarm will be triggered.	Ī	M73		
There are two alarming methods. User must select the alarming output items from				
window M78 or M77				
M74 Alarm #1 upper threshold setup	ŀ	M74		
M75 Alarm #2 lower threshold setup				
M76 Alarm #2 upper threshold setup				
M77 Buzzer setup. If a proper input source is selected, the buzzer will beep when the trigger				
event occurs		1111		
	L			

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