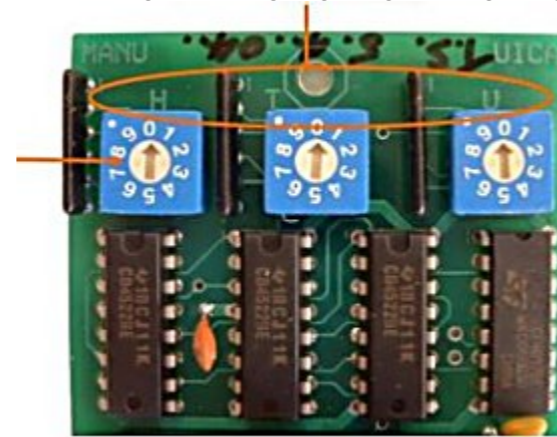


Calibrating of UIC's pulse output signals is via 3 rotary select switches (numbered 0-9) marked **H (Hundreds)**, **T (Tens)** and **U (Units)**.

Use small flat-bladed screwdriver, insert into switch slot and turn arrow to desired number.



### Formula to calculate HTU settings

UIC card with STANDARD x10 pulse input multiplier	UIC card with x50 pulse input multiplier
$\text{HTU} = \frac{\text{input pulses/Litre}}{\text{output pulses/Litre}} \times 5$	$\text{HTU} = \frac{\text{input pulses/Litre}}{\text{output pulses/Litre}} \times 25$
e.g. to convert 20 pulses/Litre to 1 pulse/Litre:	e.g. to convert 7.3 pulses/Litre to 1 pulse/2 Litres:
$\text{HTU} = \frac{20 \text{ pulses/Litre}}{1 \text{ pulse/Litre}} \times 5$	$\text{HTU} = \frac{7.3 \text{ pulses/Litre}}{0.5 \text{ pulse/Litre}} \times 25$
HTU = 100 (i.e. H=1 T=0 U=0)	HTU = 365 (i.e. H=3 T=6 U=5)

### Admix batching with MES20 flowmeters and UIC

For batching with concrete admixtures, the MES20/MES20-S 20mm 1000 pulses/Litre flowmeters are primarily used. For pulse scaling setpoint values, refer to the the following table (for a x10 input standard UIC card):

Rotary value H T U	UIC card pulse o/p rate	Volume per pulse
0 2 5	200 pulses/Litre	5 ml/pulse
0 5 0	100 pulses/Litre	10 ml/pulse
1 0 0	50 pulses/Litre	20 ml/pulse
1 5 0	33.3 pulses/Litre	30 ml/pulse
2 5 0	20 pulses/Litre	50 ml/pulse
5 0 0	10 pulses/Litre	100 ml/pulse
9 9 9	5 pulses/Litre	200 ml/pulse

#### Final Calibration:

If the liquid collected is **more** than pulse value shown on computer screen, then **decrease** the rotary decade set value by the same % difference.

If the liquid collected is **less** than pulse value shown on computer screen, then **increase** the rotary decade set value by the same % difference.

Note: Final calibration can also be performed via computer software scaling.

### Water batching with RPFS flowsensors and UIC

Pipe size (mm)	UIC card with STANDARD x10 pulse input multiplier		UIC card with x50 pulse input multiplier	
	UIC Set Value H T U	Output pulses per Litre to PLC/computer	UIC Set Value H T U	Output pulses per Litre to PLC/computer
25	3 7 5	1 pulse per 1 Litre	1 8 5	10 pulses per 1 Litre
32	2 3 0	1 pulse per 1 Litre		
40	1 5 0	1 pulse per 1 Litre		
50	1 0 0	1 pulse per 1 Litre		
65	0 6 0	1 pulse per 1 Litre	5 0 0	1 pulse per 1 Litre
80	3 6 5	1 pulse per 10 Litre	3 0 0	1 pulse per 1 Litre
80	0 7 3	1 pulse per 2 Litre	3 6 5	1 pulse per 2 litres
100	0 9 2	1 pulse per 4 Litre	1 2 5	1 pulse per 1 Litre

All values are starting reference values for RPFS-P and are approximate only, due to possible variations in installation conditions e.g. due to pipe direction, water quality etc. Values could vary up to 10%.

[Top](#) | [Home](#)