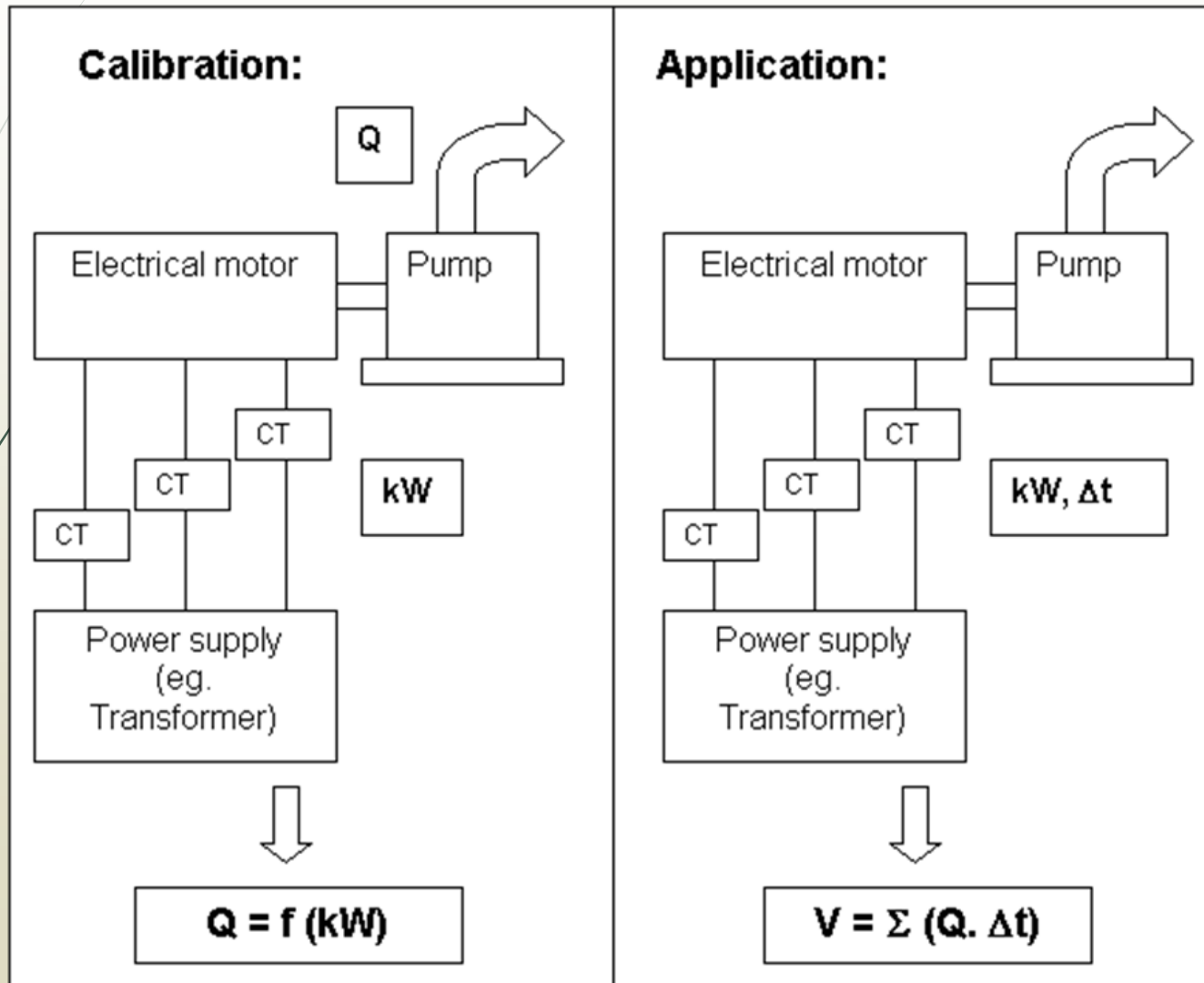


A decorative graphic on the left side of the slide. It features a solid green arrow pointing to the right, positioned horizontally. Behind the arrow and extending upwards and to the right are several thin, dark green, curved lines that resemble stylized grass or reeds. The background of the slide is a light beige gradient.

Indirect measurement

Operating principle





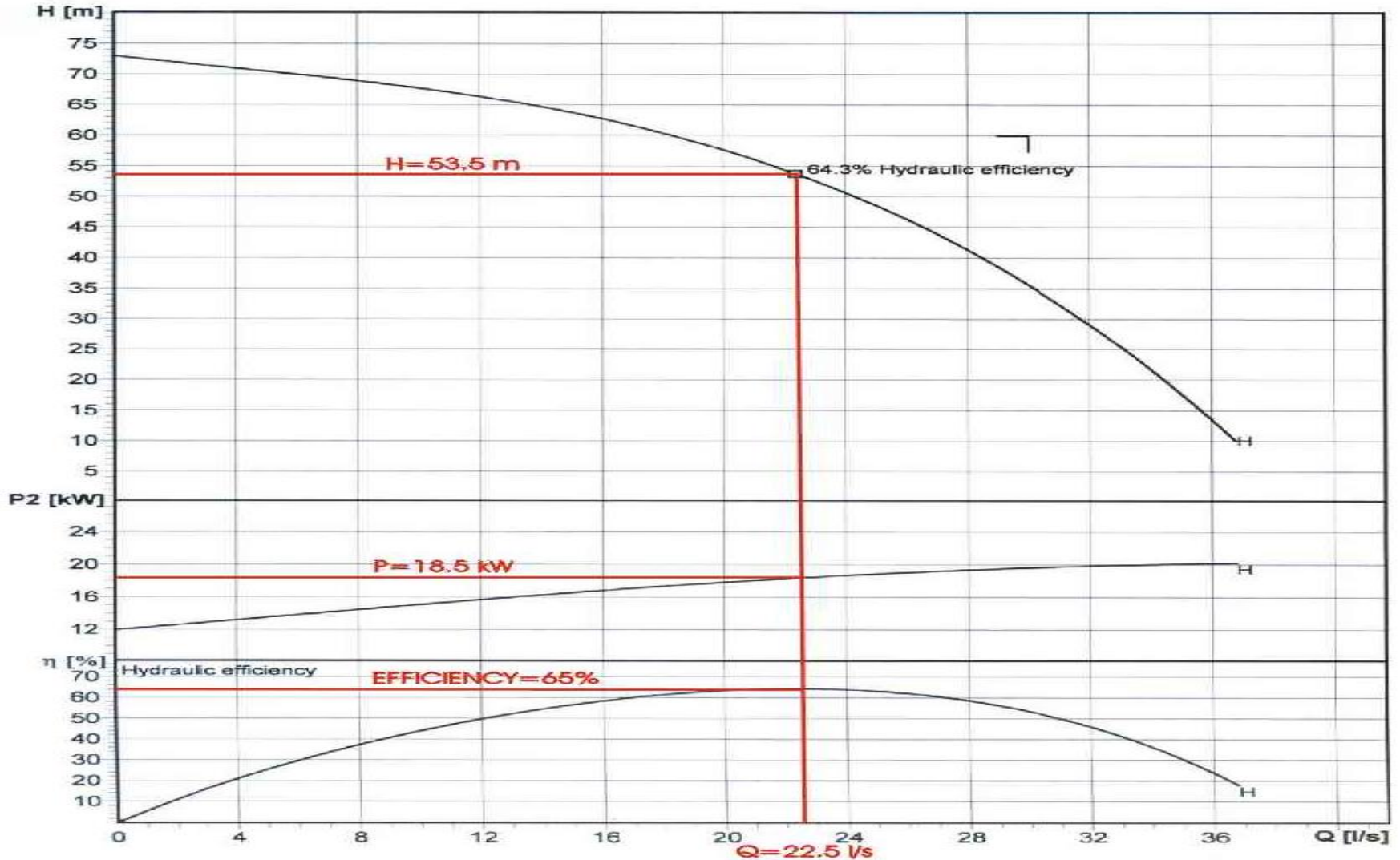
Operating principle

- ▶ A combined energy and water meter, specifically developed for raw water conditions, and where pumping is involved
- ▶ There is a reliable relationship between the work performed/done by pump (Q & H), and the power needed to perform the work (kW)

Pump curve

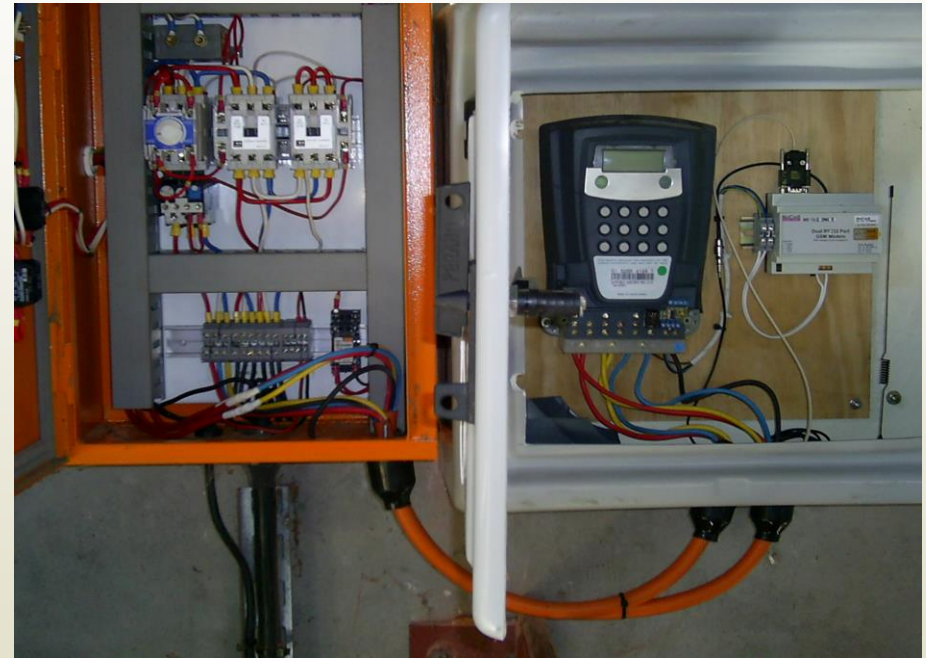
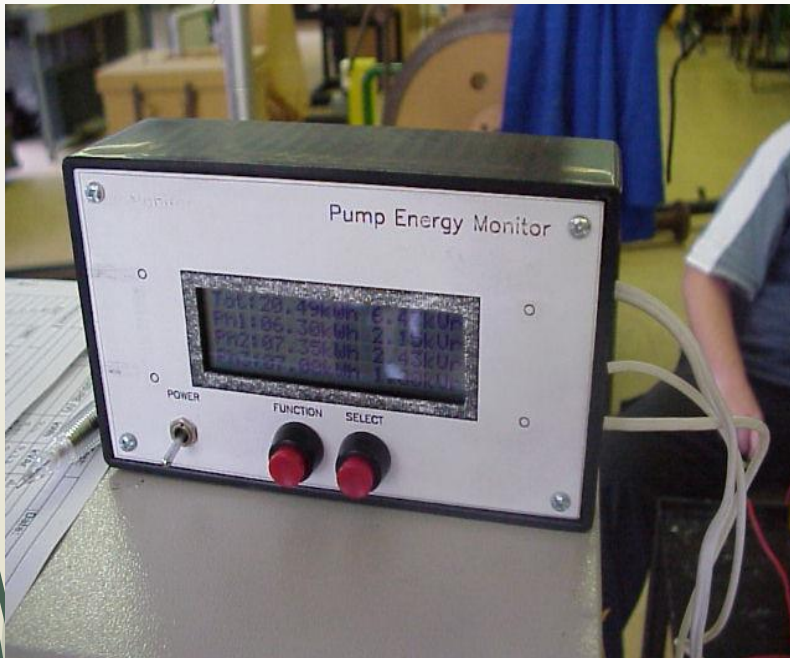
50 Hz

Density 1000 kg/m ³	Viscosity 1 mm ² /s	Testnorm ISO 2548	Nominal speed 2870 1/min	Impeller size 235 mm	Date July 21, 2003
Impeller Semi-open					

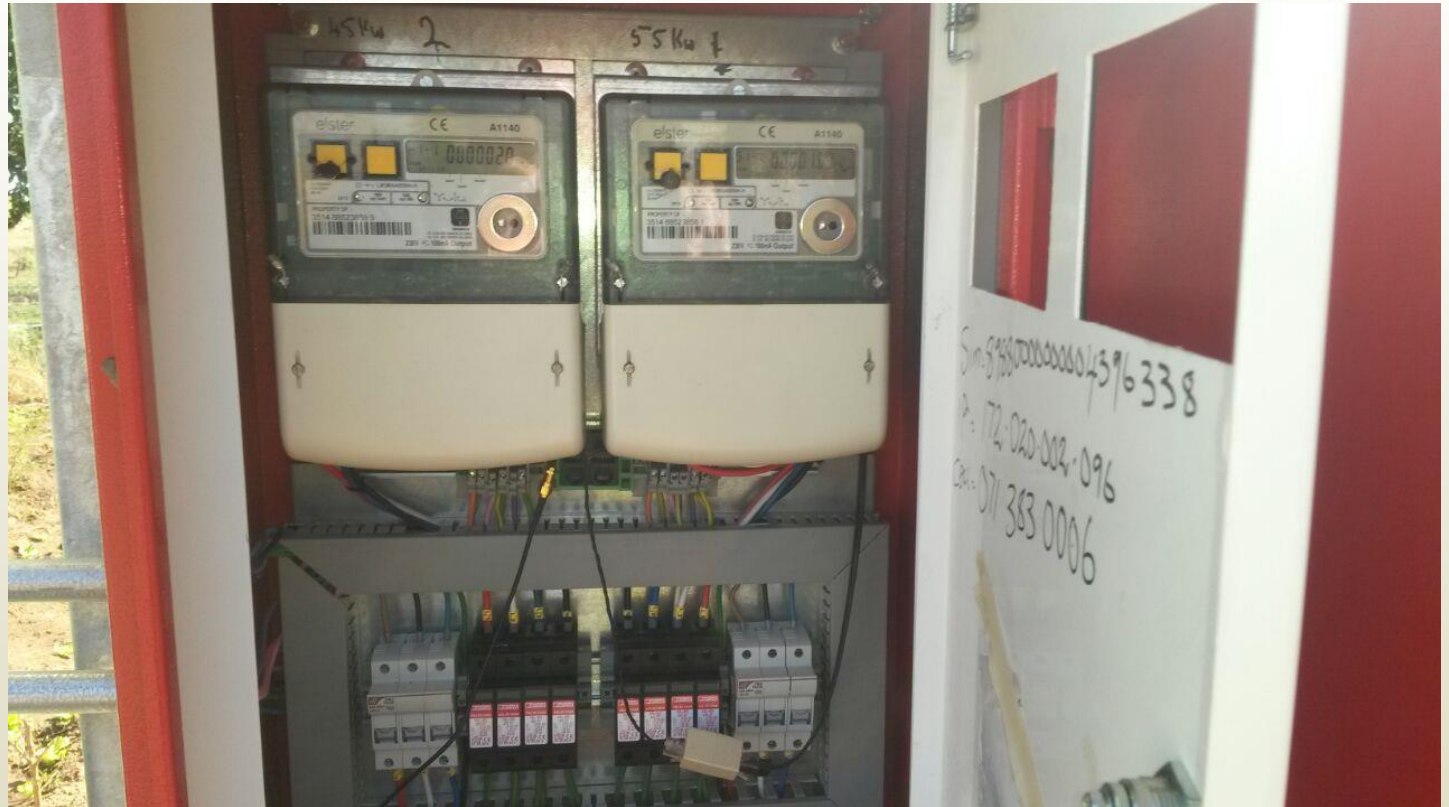


PX 12-H-AA 50Hz

Product development (ElectroFlo meter)



FloCheck meter



Calibration and programming

FlowCheck Ver 3.1 - [FLOTEC] [Swartbas Pomp 2.ini]

Pre Calibration | **Calibration** | Installation Setup | Instantaneous

Polynomial | Lower/Upper | Flow Regions

Calibration Points		Degree of Polynomial
kW	Flow	
16.163	21	3
18.943	76	
20.631	122	
21.567	145	
24.205	220	
26.976	300	

Coefficients of Polynomial	
Degree	Coefficient
3	-0.06174622694...
2	4.50425331645...
1	-80.5121685818...
0	406.071764987...

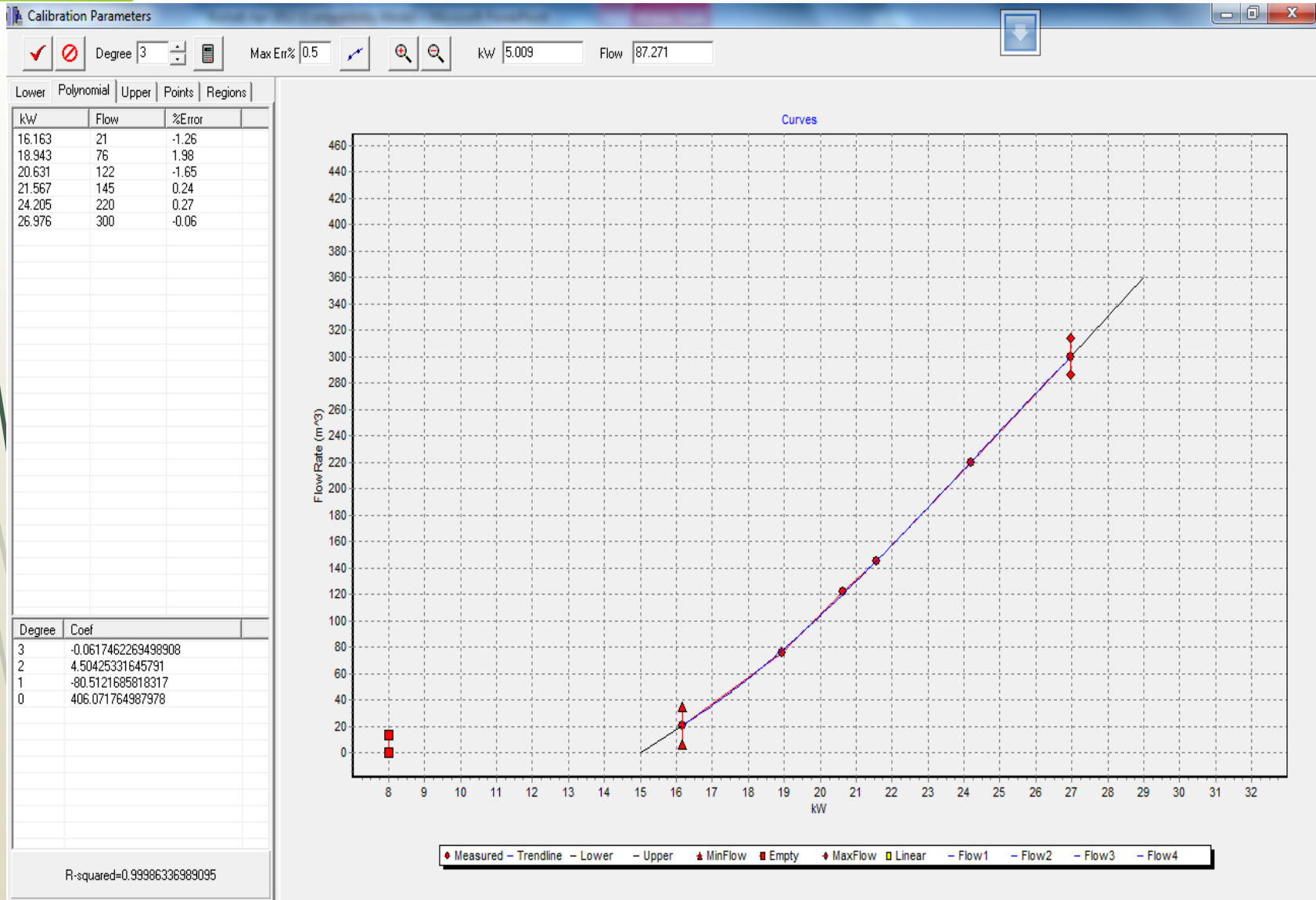
Instantaneous | Volumetric

Instantaneous

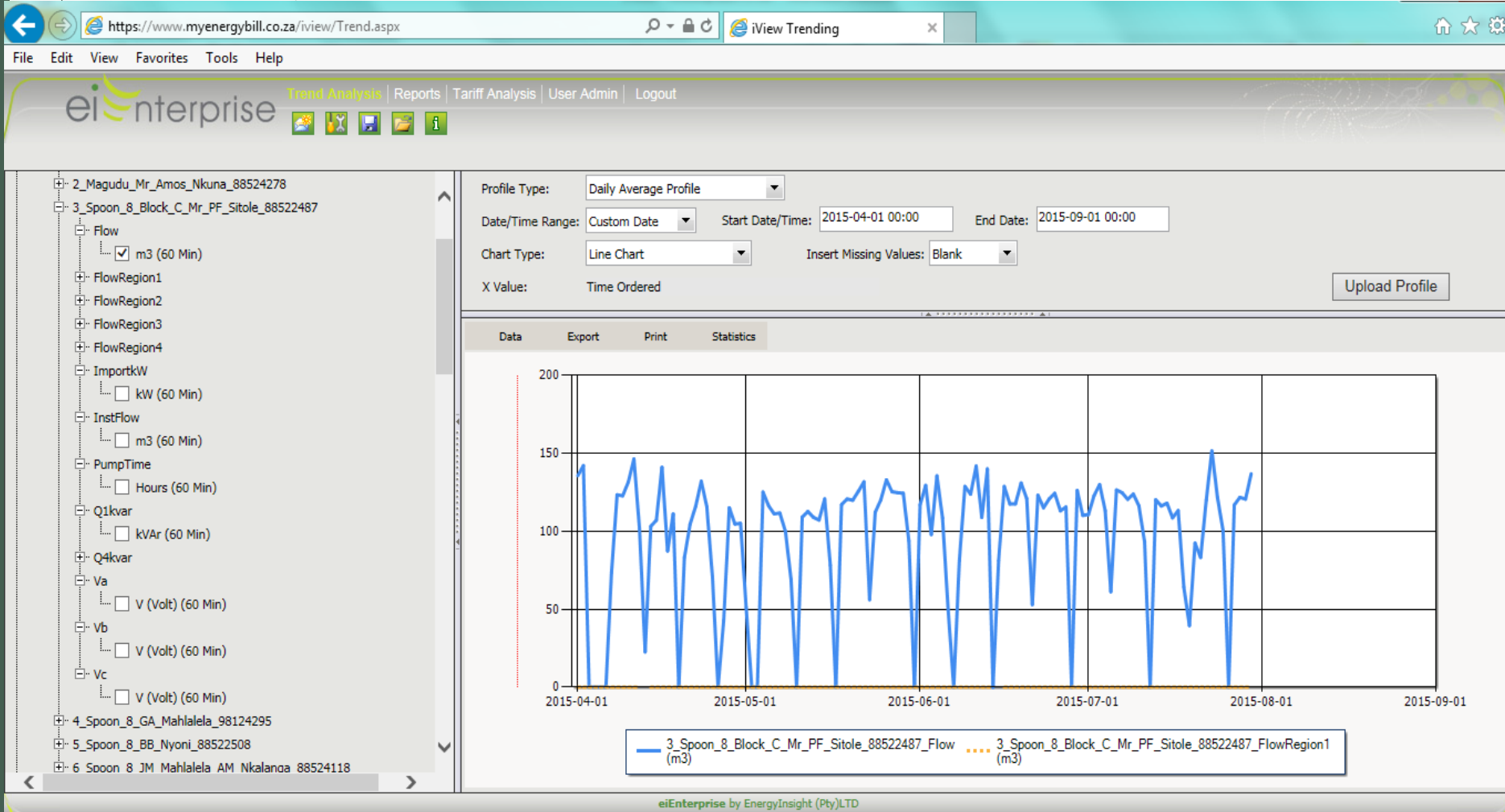
kW Reading Auto

Flow Reading Auto

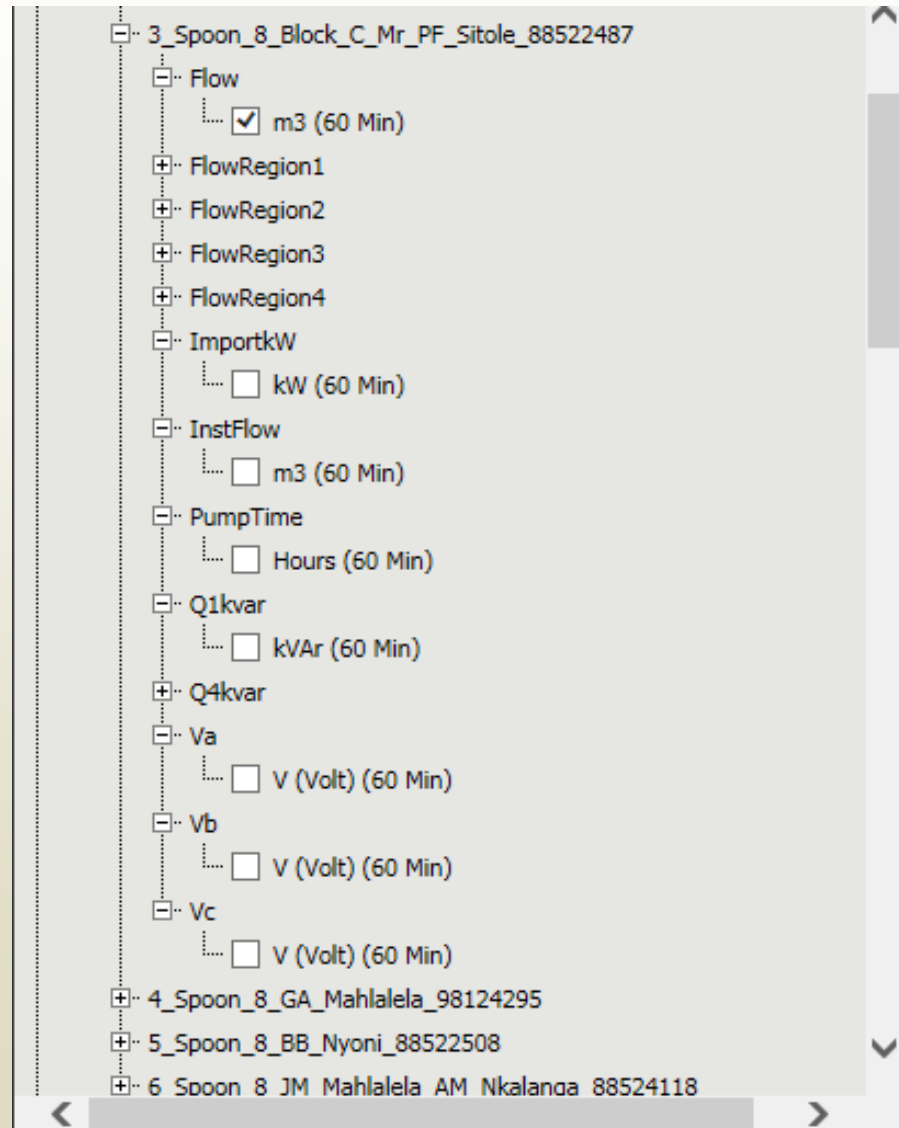
Calibration and programming



Data capturing



Data available





Advantages

- Ease of installation
- No moving parts
- No obstruction in flow path of water – therefore no additional friction
- High accuracy
- Affordability (cost)
- Value for money – much more than just a water meter
- Low maintenance
- Amount of info available from meter – with further analysis it can help to make the system more efficient
- Control functions



Disadvantages

- Recalibration requirement after certain work has been carried out on pump and electrical motor