Point Energy Technology

PE Tech

Saving energy through intelligent monitoring, control, and optimization

UNIVERSITY OF LEEDS

OVERVIEW

PETech aims to develop a new generation of low cost minimal intrusive energy monitoring, control and optimization systems for energy intensive industries, in particular for SMEs.

We help SMEs to modernize their production lines, leading to improved product quality at reduced energy consumption.

Our system is compatible with most processing machines in polymer and food industry, and can be tailored for other applications involving energy management and efficiency.

SOLUTION

Dedicated energy monitoring and management system aimed for energy intensive manufacturing machines.

Isolated signal measurement provides non-intrusive installation. No changes are needed for existing systems.

Remote data logging and real-time data analysis provide useful and secure reports and overview accessible from anywhere with internet connection.

Additional modules are developed for process modelling, control, and optimization.

ADVANTAGE

- Low-cost minimal-intrusive equipment and service for SMEs.
- Compatible with existing systems.
- Real-time analysis of energy consumption from process line.
- Health monitoring and fault detection.
- Easy scale up.
- Lower maintenance cost.

APPLICATION

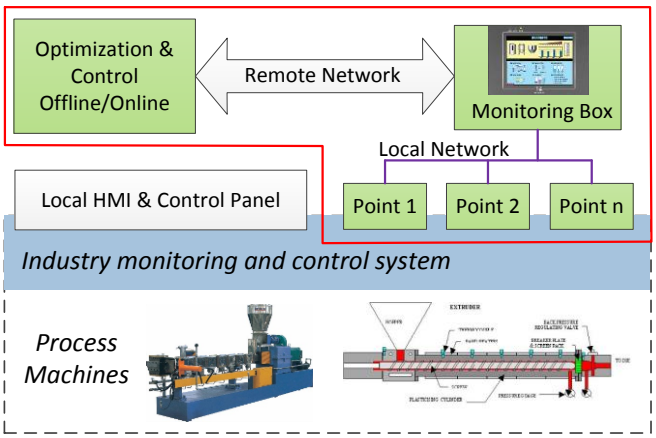
Polymer Processing	Extrusion, Injection Moulding
Food Processing	Bake Oven, Fryer, Mixer
Electrical Vehicle	BMS, V2G, V2B
Green Building	Micro-Grid

KEY FEATURES

Good Scalability	Point: 1 to 10000+
Safety Installation	Integrated into Exciting System with Minimal Intrusion.
Analog/Digital	Voltage, Current, PWM
Rich Local/Remote Communication	RS-232/485/422, CAN, Modbus, Ethernet GPRS, WiFi, 3G, Wireless

DELIVERABLES

System Platform	Instrument
Data Service	Remote Data Centre
Consultancy	Manufacture Performance



Structure of distributed energy management system for polymer extrusion

Our Partners are Leading local plastic and polymer companies

Invest Northern Ireland
Building Locally Competing Globally

European Union
European Regional Development Fund
Investing in your future

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