THE PROSPECT ADVANTAGE

ProSpect

Our customers profit from ProSpect's unique engineering skill set, in depth knowledge and technical support based on over 30 years of experience in designing and building process systems.

ProSpect TS-30

Flow Cells

| EXPERTS | APPLICATIONS | PRODUCTS | TOTAL CONTROL |

LEVERAGING EXPERIENCE

ProSpect's process experts realized that the global dairy industry could increase efficiency, boost productivity and maximize profit with in-line real time NIR analytical control.

Our focus is on turning NIR technology into unprecedented value for our customers.

Applications

- Dairy
- Butter
- Cheese
- Yogurt
- Fluid Milk
- Mozzarella Cheese
- Cheese Milk Standardization
- Whey Protein Isolate
- Whey Protein Concentrate
- Milk Protein Concentrate

ProSpect products deliver real time analysis and automated process control for a range of applications.

PRECISION AND PERFORMANCE

In-line dual probe transmission NIR analyzers evaluate a larger representative sample than alternative methods limited to incoming product, finished product or a smaller surface section of the process flow.

Industrial hardened to withstand humidity, vibration and temperature extremes, our products deliver maximum uptime with minimum maintenance.

PROSPECT TS-30 AND TD-30

Transmission analyzers for liquids and slurries

- Stainless steel, 3A and NEMA 4X
- Simple installation
- Integrates with PLC platforms
- Pre-loaded calibrations
- Easy to operate
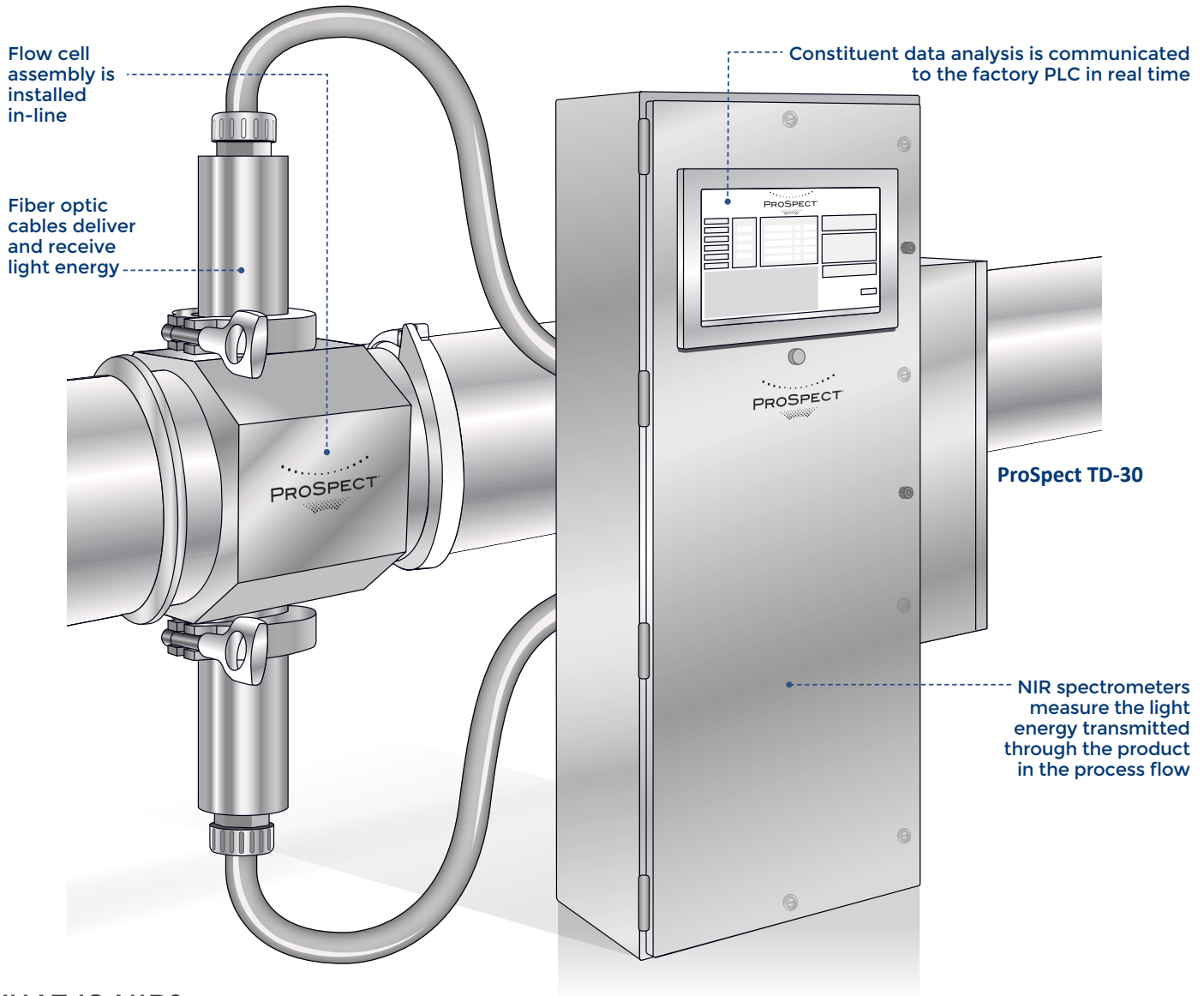- Fully CIPable
- Experienced tech support

YOUR PROCESS OPTIMIZED

ProSpect partners with your existing system to optimize your production process in-line, automatically, in real time.

- Remove guesswork
- Ensure consistency
- Decrease out of spec product
- Eliminate operator error
- Remove sample delays
- Cut standardization costs
- Reduce product giveaway
- Improve profit

IN-LINE NIR ANALYTICAL CONTROL

ProSpect's high resolution NIR spectrometers make accurate predictions of protein, moisture, fat and other organic constituent concentrations in real time to facilitate automated formula adjustments.

Flow cell assembly is installed in-line

Fiber optic cables deliver and receive light energy

Constituent data analysis is communicated to the factory PLC in real time

ProSpect TD-30

NIR spectrometers measure the light energy transmitted through the product in the process flow

WHAT IS NIR?

Near infrared (NIR) spectroscopy measures the interaction between matter and near infrared light energy. The amount of energy reflected or absorbed is used to analyze the composition of the material.

THE ELECTROMAGNETIC SPECTRUM

Cosmic | Gamma | X rays | Ultraviolet | Visible | INFRARED | Microwave | Radio

Near infrared light energy is closest in wavelength to visible light on the electromagnetic spectrum. ProSpect's analyzers quantify molecular vibration in the infrared light region from 850 to 1100 nanometers.

AMETEK® | **mocon®**