Easily upgrade melters to an adhesive tracking system (ATS) to optimize consumption and production efficiency

An easy-to-use ATS retrofit kit contains all the pieces required to add adhesive tracking capabilities to any Nordson packaging melter. An external gear flow meter-manifold can be connected to the melter manifold, and a control box can be easily mounted on the melter or nearby on the parent machine.

The flow meter directly measures adhesive volume and alerts the system when the amount of dispensed adhesive is out of a predetermined band. The output signal from the control box can be used to stop the line, eject product or signal a light tower. By tracking the precise amount of adhesive dispensed onto a package, users can minimize adhesive waste and prevent pop-opens.

Features
- Add adhesive tracking capabilities to existing ProBlue and non-ProBlue melters.
- Track total adhesive consumption, per package add-on weight and total number of products.
- User adjustable adhesive volume upper and lower tolerance band limits to identify out of tolerance product.
- Download historical data via USB for process analysis.
- Monitor and control ProBlue melters in real time via optional Ethernet IP & Fieldbus.
- Flexible mounting allows the flow meter-manifold to attach directly to the melter or attach remotely, either horizontally or vertically, close to the point of application.

Benefits
- Monitor the correct amount of adhesive per product to minimize machine jams, rework of unfinished product and return shipments from the end customer.
- Analyze historical data to improve operation.
- Minimize number of long hoses by mounting close to the point of application.
**Specifications**

**Instantaneous Flow Rate Range**  
0.03–91 kg/hr (0.07–200 lb/hr)

**Displacement**  
1.0 cc/rev = 1 g/rev = 0.001 kg/rev = 0.0022 lb/rev

**Resolution**  
0.025 cc (25 mg) or (0.055 lb)

**Viscosity Range**  
600–10,000 cps

**Temperature Rating**  
204°C (400 °F) maximum

**Maximum Pressure Rating**  
100 bar/10 MPa (1450 psi)

**Output Signals**  
2 (Enabled Output and Alarm Output), 24VDC sourcing (PNP), 25 mA each

**Manifold Construction**  
Aluminum, type 6061-T6

**Flow Meter Construction: Gears**  
86L20 steel, case-hardened

**Flow Meter Construction: Gear Shafts**  
Carbon steel, hardened and grounded (DIN 6325, M6)

**Flow Meter Construction: Body**  
316 stainless steel

**Flow Meter Sensors: Inductance**  
1 mH (+/-10%)

**Flow Meter Sensors: Resistance**  
15 ohm (+/-10%)

**Flow Meter Sensors: Frequency**  
60 kHz (+/-10%)

**Controller Required Power**  
24 VDC (+/-10%) at 200 mA

**Manifold Electrical Requirements**  
Hose/applicator channel: 1, heater power: 350 watts

*SG = specific gravity = 1.0*