



Information Sheet

ePAT 601 Blend Monitor

601-ML-17-0102-C

ePAT 06-06



FEATURES

- **Wireless Communication**
- **Non-contact sampling**
- **Battery operated**
- **Rugged IP65, cGMP enclosure**
- **Real time results**
- **USP traceable standards**

BENEFITS

- **Improve quality and yield**
- **Improve downstream processing**
- **Improve process understanding**
- **Eliminate sample thieving**

The **ePAT 601** Blend Monitor is a real time, continuous PAT analyzer developed specifically for the pharmaceutical industry. The system accurately monitors the uniformity of all blend components such that end -point determination can be controlled and maximized.

The instrument is capable of measuring samples through a window inserted into the lid of a blender and triggered by the blender's rotation.

The system contains a MEMS-based NIR spectrometer with integrated wavelength and amplitude reference module.

The **ePAT 601** Blend Monitor also comprises an on-board computer and a remote measuring head. The system communicates with a remote base station computer, so that measurements can be viewed and recorded in real time.

The measuring head is configured for convenient, non-contact analysis with a nominal 6mm, 10mm, 20mm, or 40mm measurement area and a standard focal distance of 18mm.

The **ePAT 601** can be directly installed onto existing blending equipment with minimal modification. It is easy to calibrate, install, and operate. Complete turn-over documentation is offered to assist with your validation.

Specification

ePAT 601 Blend Monitor

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|----------------------------|---|
| Spectral Range | 1350 - 1800nm |
| Resolution | 2nm |
| Wavelength Accuracy | < 0.1nm |
| Wavelength Reproducibility | < 0.1 Standard Deviations |
| Base Line Drift | < 0.3% RAU/hr |
| Light Source | Tunable laser |
| Noise - RMS | < 0.04mAU |
| Data Acquisition Time | 400ms |
| Power | Hot swappable batteries - 6 hr operation or optional 110/240VAC or optional 12VDC |
| Sampling Interface | Non-contact |
| Sampling Area | 6mm, 10mm, 20mm and 40mm spot sizes |
| Working Distance | 18mm |
| Enclosure | cGMP, IP65 and NEMA 4X |
| Weight (Enclosure) | 11kgs |
| Weight (Measuring Head) | 3.5kgs |
| Size (Enclosure) | 154h x 320w x 275d (mm) |
| Size (Measuring Head) | 170h x 125w x 130d (mm) |
| Communication | Wireless 802.11G with WPA security and an optional direct Ethernet connection |
| Computer | Embedded, ruggedized, removable flash memory |



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