

 Custom Sensors & Technology	Document: PX2 Part Numbering Guidelines	Date: 5/22/2023
General Specifications	Created: March 31, 2015	Revision: 0.09

PX2 Photometric Transmitter



The PX2 is a compact, easy to use process monitoring instrument designed to execute either absorbance or fluorescence measurements with high sensitivity. The modular design accommodates a combination of light sources, detectors, and digital or analog communication options to support a wide variety of applications with a single instrument. Users can easily detect changes in the unit's operating status with the color-changing LED indicator light on the face of the unit. Additionally, the optional software package allows users to create a calibration curve for any sample.

Default specifications are in **blue** text, alternative specifications are available as an upgrade.

PX2 Photometric Transmitter

Part Number: 63AB-C-DEFGH-IJ-KLMN-OPQR-STUV

- A** = Measurement Method: (0) Absorbance **(1) Fluorescence**
- B** = Measurement Quantity: **(0) Single** (1) Dual
- C** = Enclosure: (0) CST Lab **(1) CST Panel** (2) Other (7) CST DIN Rail (L) CST DIN Rail + Remote LCD PCB
- D** = Light Source 1: (0) LED (230 nm and greater) **(1) Flash Lamp (185-2000 nm)** (2) Tungsten Halogen Lamp (400-2600 nm) **(3) Micro Filtered LED**
- E** = Light Source 2: **(0) None** (1) LED (230 nm and greater) **(2) Micro Filtered LED**
- F** = Detector 1: (0) Si Photodiode (190-1100 nm) **(1) PMT (185-700 nm)** (2) Two-stage TE-cooled InGaAs Photodiode (1200-2550 nm)
- G** = Detector 2: **(0) Silicone Photodiode (190-1100 nm)** (1) Two-stage TE-cooled InGaAs Photodiode (1200-2550 nm)
- H** = Reference Technique: **(0) Source** (1) Through Media
- IJ** = Compensation **(00) None** (1) pH (2) Temperature (3) Pressure (4) Conductivity (5) Custom (example: 23 = Temperature and Pressure)
- KLMN** = Wavelength 1 Wavelength (nm) XXXX
- OPQR** = Wavelength 2 Wavelength (nm) XXXX [0000 None]
- STUV** = Emission Wavelength Emission Wavelength (nm) XXXX [0000 None]

Specifications

Alarms: Contact Closure (60 VDC, 0.75 A max.)
Analog Loop Resistance: 500 ohms at 24 VDC
Analog Output: 4-20 mA, isolated
Detector: Photodiode, PMT
Digital Output: RS-485 (Modbus), USB

Accuracy: ±1% of full scale from 0-2AU; ±2% of full scale from 2-3AU
Repeatability: ±0.5% of full scale
Range: 1-65,000 counts, 0.000-3.000 AU
Response Time: 1 second or better
Size: 4" x 4" x 2.5" (W x L x H)