

 Custom Sensors & Technology	Document: PX2 Part Numbering Guidelines	Date: July 22, 2020
General Specifications	Created: March 31, 2015	Revision: 0.05

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
D = Light Source 1:	(0) LED (230 nm and greater) (1) Flash Lamp (185-2000 nm) (2) Tungsten Halogen Lamp (400-2600 nm)
E = Light Source 2:	(0) None (1) LED (230 nm and greater)
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
Light Source: LED, Flash or Tungsten Halogen Lamp
Power Consumption: 8.5 Watts max.
Power Requirements: 24 VDC nominal (12-48 VDC)

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)
Temperature Range: 41-121°F (5-50°C)
Wavelength Range: 185-2550 nm
Weight: 1.5 lbs. (0.68kg)