



# IntroPro Non-Invasive **Gross Occlusion Detector**





Introtek's IntroPro non-invasive occlusion free-entry detection devices accurately monitors tubing occlusion in soft tubing. When tubing within an application becomes blocked (occluded), the result is a change in pressure within the tube.

These variations in tubing pressure is detected using a passive device output non-invasively with the free-entry IntroPro Occlusion Detector. This type of detection is considered critical in improving processes for various applications.

# Applications the IntroPro Detector can be utilized include:

#### **APPLICATIONS:**

- Medical Devices
- Clinical Laboratories
- Pharmaceutical Manufacturing
- Automated Packaging
- Liquid & Chemical Dispensing
- Food & Beverage Process

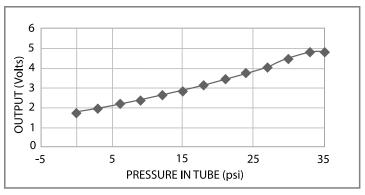
#### **PRODUCT HIGHLIGHTS:**

- Non-invasive and compact design with a durable housing
- Versatile output signal corresponds to tubing occlusion
- Factory-calibrated and maintenance-free
- Simple uni-body construction with no moving parts
- Low Cost

#### **GENERAL CHARACTERISTICS / Technical Data**

Measurement Technology	0-500 gm force on memebrane. Repeatability and output are tube dependant
Sensor Housing	ABS Plastic
Mounting	Fixed installation
Input Voltage	5 VDC +/- 5%
Input Current	10 mA
Operating Temperature	+41 to +140 °F (+5 to +60 °C)
Humidity	0 – 90% Non-condensing
Output Signal	Analog 0.5 + 4.5VDC typ.

#### TUBE PSI vs. OUTPUT VOLTAGE



# The Introtek Advantage

provides products of unsurpassed quality, functionality and dependability that are manufactured to the highest medical device standards and backed by a three-year warranty.

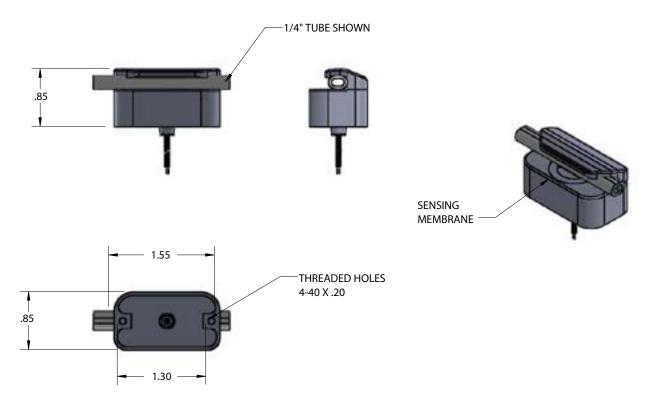
## **Certifications**





#### IntroPro

#### Sensor Dimensions - inches (mm)



#### **VALIDATION TESTING**

The IntroPro Sensor was designed to be tested in conjunction with the following specifications:

#### **Electrical Fast Transients:**

IEC 61000-4-4: 2012

### Radiated Emissions, Group 1, Class B:

CISPR 11:2015

#### **Electrostatic Discharge:**

IEC 61000-4-2:2008

#### **Radiated Immunity:**

IEC 61000-4-3:2006+A1:2007+A2:2010

## **Power Frequency Magnetic Fields:**

Performed per IEC 60601-1-2:2014

#### **General Safety Requirements:**

IEC 60601-1:Edition 3.1 2012-08



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Performance specifications are effective with date of issue and are subject to change without notice

#### **Detector Part Number**

Please contact an Introtek Application Specialist to determine the optimal configuration for your application.

# **Three-Year Warranty**

All Introtek systems are warranted free of defects in materials or workmanship for three full years from the date of original factory shipment.

If returned within the warranty period, with no modifications to the sensor; the original manufacturing label intact; and, upon factory inspection of the unit, the cause of the malfunction is determined to be defective material or workmanship; Introtek will repair or replace the system at no cost to the purchaser (or owner) other than transportation.

# If a unit is returned without an original label, the warranty is void.

Introtek shall not be liable for misapplication, labor claims, direct or consequential damage or expense arising from the installation or use of the equipment. There are no other warranties expressed or implied except special written warranties covering some Introtek products.



Bulletin: 90-166.0 Effective: Sept. 2019