

## Fire and Gas Detection Systems

Dräger solutions provide accurate operation for long periods of time often without calibration or maintenance – even in the harshest environments. They offer easy upgrades, plant-wide view of safety systems and real-time view of individual sensors in control room and remote locations. Our portfolio can detect 400+ gases and vapors and offers visual and optical fire detection.



### **ETA Process Instrumentation**

[www.etapii.com](http://www.etapii.com)  
[sales@etapii.com](mailto:sales@etapii.com)  
tel: 978.532.1330

*New England*

### **Martech Controls**

[www.martechcontrols.com](http://www.martechcontrols.com)  
[sales@martechcontrols.com](mailto:sales@martechcontrols.com)  
tel: 315.876.9120

*Upstate New York*

COMBUSTIBLE GAS DETECTION TRANSMITTERS



D-32407-2011

**Dräger Polytron® 5200 CAT**  
Low-cost explosion proof transmitter with optional relays uses a high performance catalytic bead DQ sensor



D-32408-2011

**Dräger Polytron® 5310 IR**  
Low-cost explosion proof infrared transmitter with optional relays uses a DrägerSensor IR



D-32408-2011

**Dräger Polytron® 5700 IR**  
Explosion-proof transmitter with optional relays uses the high performance PIR 7000 sensor



D-39563-2011

**Dräger Polytron® 5720 IR**  
Explosion-proof transmitter with optional relays uses a high performance Dräger PIR 7200 CO<sub>2</sub> sensor



D-797-2016

**Dräger Polytron® 8200 CAT**  
Explosion-proof transmitter with optional relays and bus communication uses a high performance catalytic bead DQ sensor



D-15018-2010

**Dräger Polytron® 8310 IR**  
Explosion-proof transmitter with optional relays and bus communication uses a DrägerSensor IR.



D-14885-2010

**Dräger Polytron® 8700 IR**  
Explosion-proof transmitter with optional relays and bus communication uses a high performance Dräger PIR 7000 IR sensor



D-2945-2018

**Dräger Polytron® 8720 IR**  
Explosion-proof transmitter with optional relays and bus communication uses a high performance Dräger PIR 7200 CO<sub>2</sub> sensor



D-0985-2020

**Dräger PIR 7000**  
Explosion-proof non-display infrared transmitter with HART uses an advanced 4 beam optical system



D-42775-2015

**Dräger GS01 (wireless)**  
Wireless hydrocarbon gas detector that combines triple-wavelength infrared technology with extremely low power consumption, and calibration-free design



D-11949-2016

**Dräger Pointgard® 2200**  
Self-contained gas detection system for general purpose areas uses an integrated or remotely mounted catalytic bead DQ sensor.



D-0981-2020

**Dräger Pointgard 2700**  
Self-contained gas detection system for general purpose areas uses a remotely mounted explosion proof Dräger PIR 7000 IR sensor

## TOXIC GAS DETECTION TRANSMITTERS



D-2947-2018

**Dräger Polytron® 8100 EC**  
Explosion-proof transmitter with advanced diagnostics and bus communication uses a high performance DrägerSensor® EC



D-158-2016

**Dräger Polytron® 5100 EC**  
Low-cost explosion-proof transmitter with optional relays uses a high performance DrägerSensor® EC



ST-2448-2003

**Dräger Polytron® 7000**  
Intrinsically safe transmitter with advanced diagnostics and optional relays and sampling pump uses a DrägerSensor® EC



D-4649-2019

**Dräger Polytron® 6100 EC WL**  
Wireless ISA100 or WirelessHART transmitter with a 2 year battery life monitors toxic gases and oxygen using one of 30 available DrägerSensor® EC



D-2864-2018

**Dräger Pointgard® 2100**  
Self-contained gas detection system for general purpose areas uses an integrated or remotely mounted DrägerSensor EC



D-21385-2020

**Dräger Pointgard 2720**  
Self-contained gas detection system for general purpose areas uses a remotely mounted explosion proof Dräger PIR 7200 IR CO<sub>2</sub> sensor



D-1046-2020

**Dräger PIR 7200**  
Explosion-proof non-display infrared transmitter for monitoring carbon dioxide (CO<sub>2</sub>) for harsh environments



D-3346-2022

**ION Science Falco PID**  
Explosion proof transmitter with a photoionization (PID) sensor for detecting VOCs such as benzene in ppm below the detection limits of IR and EC sensors

## AREA MONITORING



D-42775-2015

**Dräger Polytron® 8900 UGLD**  
An early warning area monitor for detecting pressurized gas leaks in outdoor industrial process environments



D-7343-2019

**MetCam Gas Camera**  
A revolutionary new detector for monitoring large areas for fugitive emissions and dangerous leaks of methane / natural gas



D-20267-2020

**Dräger Polytron Pulsar 7000**  
The Dräger Pulsar 7000 Series are stationary open path gas detectors

COMMERCIAL BUILDING SYSTEMS



D-4775-2019

**Refrigerant Transmitter**  
Infrared sensor based analog transmitter available for common refrigerants such as R134a with a measuring range of 0-2000 ppm and detection limit of 50 ppm.



D-28573-2016

**Dräger VarioGard® 2300 IR Ex**  
Cost effective analog output transmitter for general purpose areas with an integrated infrared sensor for detecting methane or LPG from 0-100% LEL in ambient air.



D-28573-2016

**Dräger VarioGard® 2320 IR CO<sub>2</sub>**  
Cost effective analog output transmitter for general purpose areas with an integrated infrared sensor for detecting carbon dioxide from 0-5% Vol. in ambient air.

FLAME DETECTION



D-1598E-2021

**Dräger Flame 1500**  
Triple IR: three infrared sensors identify hydrocarbon-based fire events with exceptional sensitivity and extreme immunity to false alarms



D-1598E-2021

**Dräger Flame 1750**  
Triple IR H<sub>2</sub>: triple IR flame detector designed for hydrogen based fire events with exceptional sensitivity and extreme immunity to false alarms. Will also detect hydrocarbon fires



D-49076-2012

**Dräger Flame 3000**  
An imaging-based IR flame detector using digital signal processing and advanced algorithms to identify flame characteristics



D-49077-2012

**Dräger Flame 5000**  
An explosion-proof flame detector based on advanced color imaging technology with real time video recording of events

CONTROLLERS



D-45452-2021

**Dräger Regard 3000**  
This compact and modular 4 channel controller with touch screen is based on the advanced Regard 7000. Features a halo ring alarm light and audible horn. Up to 8 relays and Modbus output available.



D-1130-2010

**Dräger REGARD® 3920**  
A general purpose box controller with a capacity of 4 to 16 analog input channels and 8 to 16 discrete relays plus common relays. Optional analog output for each channel and Modbus.



D-65806-2016

**Dräger REGARD® 7000**  
A modular and highly expandable analysis tool that's suitable for gas warning systems with various levels of complexity and numbers of transmitters

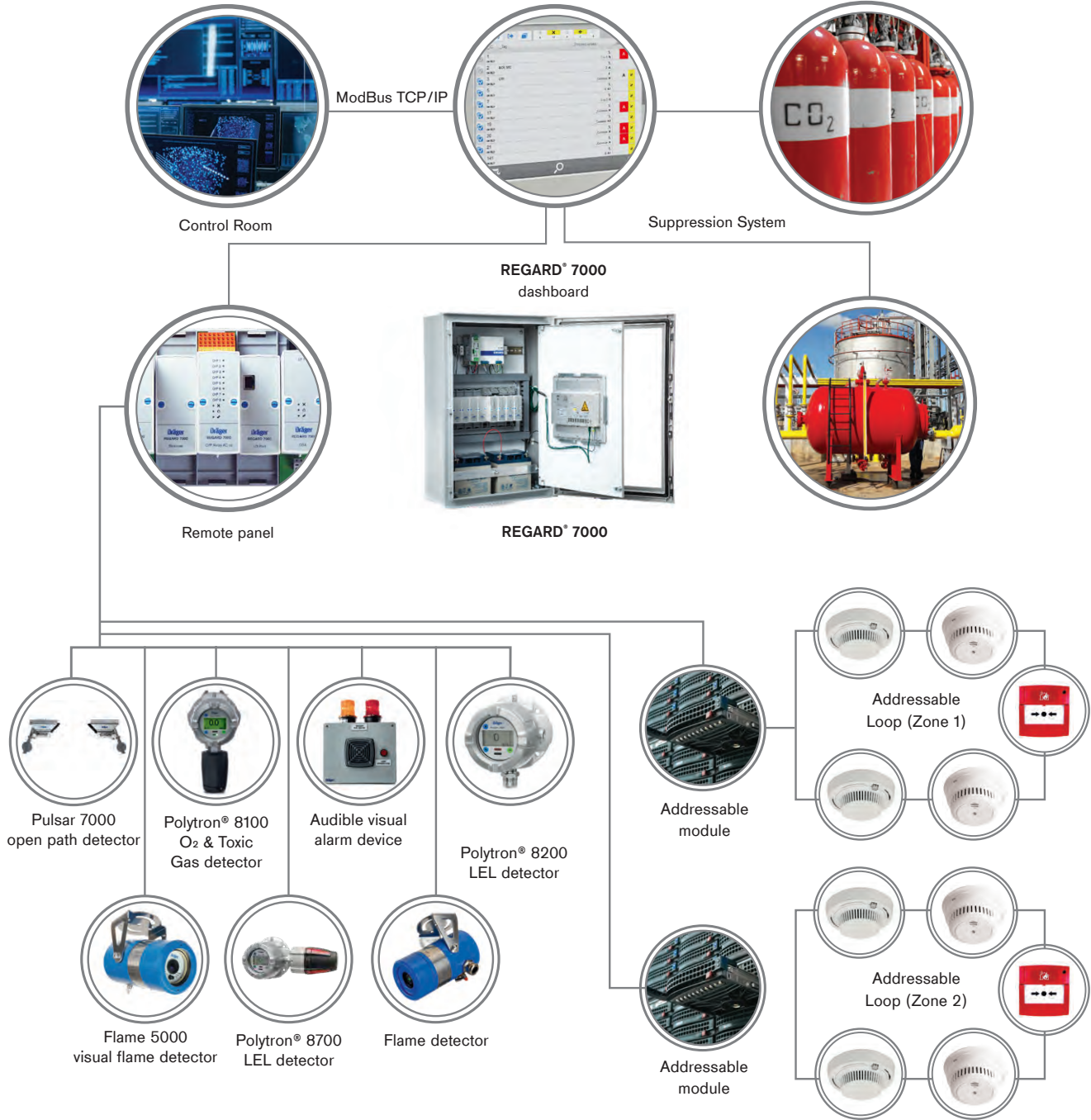


D-65806-2016

**Dräger REGARD® 7000F**  
A truly integrated, performance-approved NFPA 72 fire signaling & gas detection system with all the functionality of both traditional fire panels & process safety PLCs

### Dräger Integrated System – REGARD® 7000-F Controller

The Regard 7000F is a UL864 (pending) performance-approved combination fire and gas system with the functions of a traditional NFPA 72 fire panel and a process safety PLC in a single platform. Multi-tasking and flexible, the menu-driven REGARD 7000F is an easily configurable solution that can be customized for all industrial fire and gas applications.



ACCESSORIES



D-853665-2013

**Bias Box for 4 Sensors**  
Maintains up to 4 EC sensors in operational state to reduce warm up time after installation in transmitter to just a few minutes



D-2514-2018

**Remote Alarm Station**  
Dräger provides various audio & visual notifications



ST-5676-2006

**Calibration Adapter**  
FKM rubber calibration adapter for all CatEx and EC DrägerSensors



ST-5679-2006

**Remote Calibration Adapter**  
Allows calibration of sensors in hard to reach places



D-16864-2014

**Process Sampling Adapter**  
Analyze process streams with a PIR 7000 sample draw systems



D-15050-2010

**EC Sensing Head Remote**  
Mount EC sensor up to 30 meters away from Polytron 5100/8100



D-85368-2013

**Splashguard**  
An accessory to prevent dust and water from collecting on the toxic and combustible sensor



D-21706-2017

**Vent Monitoring**  
A custom 2" vent line monitoring system to detect and record gas releases



D-21569-2020

**Remote Sensor Junction Box**  
The explosion-proof junction box allows remote mounting of an IR or CatEx sensor up to 30 meters



D-12212-2014

**Flow Cell for IR Sensor**  
Remotely calibrate Polytron 5700/8700 sensor inside a duct or remote location with tubing



ST-8857-2005

**Duct Mounting Kit**  
Monitor inside ventilation ducts. Rail system allows for easy sensor removal for preventive maintenance



D-85369-2013

**Pole Mounting Kit**  
Attach Polytron 5000/8000 series to a pole or pipe using clamps (not included)



D-4316-2019

**Dräger Polysoft Software**  
Windows software for managing all Dräger gas detection transmitters via HART®, IR® or Bluetooth®



D-5554-2018

**Polytron Calibration Kit**  
Carrying case with zero gas cylinder, regulator and tubing and space for a span gas cylinder.



ST-9370-2007

**Calibration Gases**  
Select from a large variety of certified cal gases designed for calibrating every sensor type



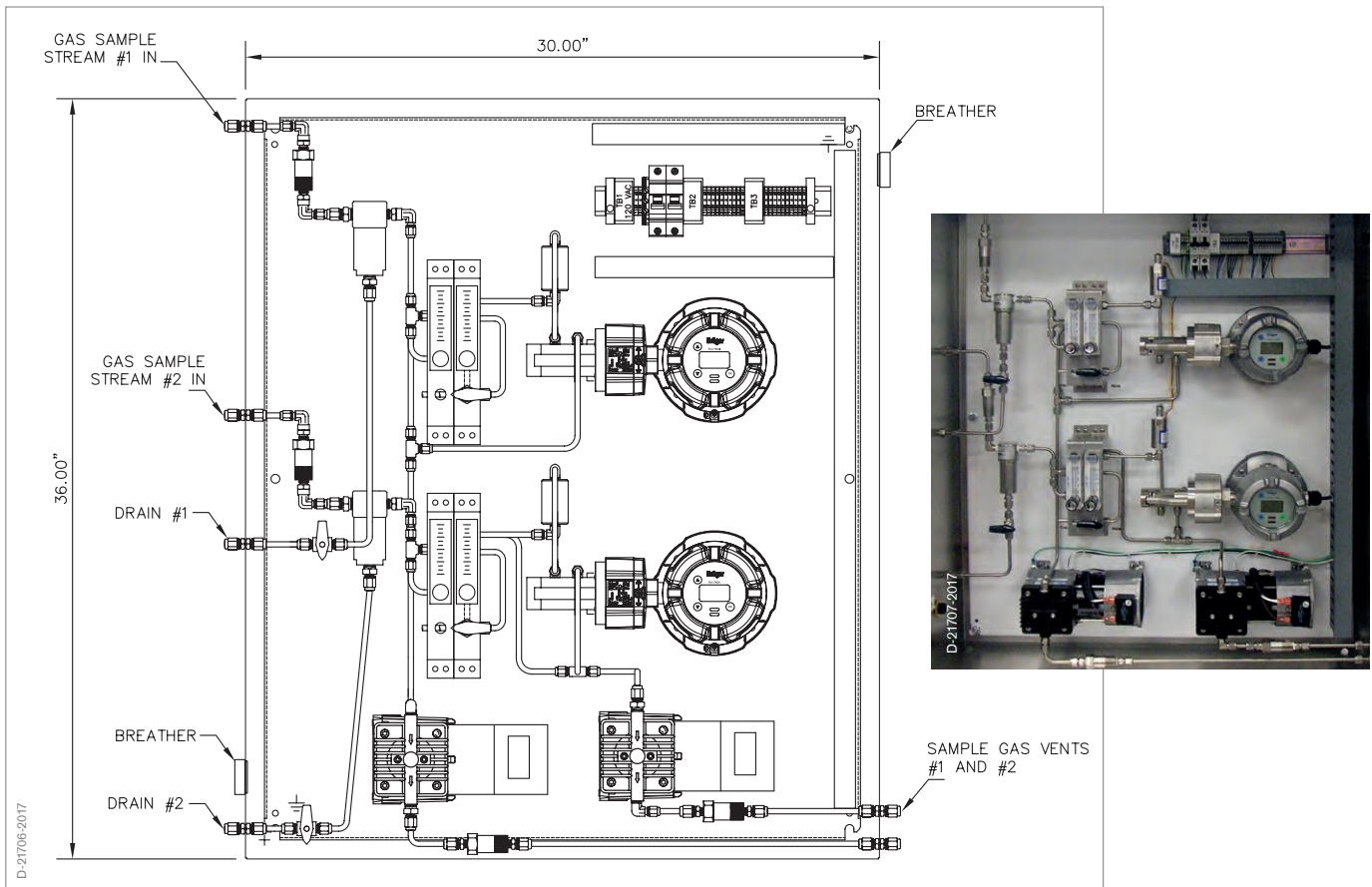
ST-748-2006

**PSD 3000 Sampling Unit**  
Sampling pump for non-hazardous areas. Adjustable flow rate with a flow switch and LEDs

# Custom Systems

At Dräger, we create technology that fits your needs. Our Application Engineering Group takes your concept and makes it a reality. Our team of engineers are capable, timely and have a passion to see your project from the drawing board to your hands; combined, they have their CFSE (Certified Functional Safety Engineer), CFSP (Certified Fire Safety Professional), and PMP (Project Management Professional) certifications, and represent all relevant engineering disciplines (mechanical, electrical, software, chemical).

## EXAMPLE OF CUSTOMIZED SYSTEM:TWO STREAM LEL GAS SAMPLING SYSTEM



STAINLESS STEEL ENCLOSURE WITH WINDOW AND BACK PANEL (SHOWN WITHOUT DOOR)

NOTES:

1. ALL BULKHEAD FITTINGS ARE 1/4" STAINLESS STEEL TUBING FITTINGS (SWAGELOK).
2. THE ENCLOSURE IS STAINLESS STEEL, NEMA 4X.
3. ALL DIMENSIONS ARE NOMINAL.
4. THE GAS DETECTORS (2) REQUIRE 24VDC. TERMINALS PROVIDED.
5. THE SAMPLE PUMPS (2) REQUIRE 120VAC. TERMINALS PROVIDED.

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GAS DETECTION SYSTEMS

REV	REVISION DESCRIPTION	CADD	CHK'D.	APPR.	DATE	PO #	EQUIPMENT TAG	PROJECT	DESCRIPTION	SCALE	NTS	FILE	DWG #	REV
1	MOVED POSITION OF DRAIN VALVES	UM		TS	06/29/17		P17054	P17054	DUAL STREAM PIR 5700 SAMPLE SYSTEM			MD21611	MD21611-CL01	1
0	AS BUILT	NDF	RLC		04/07/17				PANEL LAYOUT					