

iPURGE200 Purge Controller For Zone 1



For controlling and monitoring the purging and operating cycle of Zone 1 (px and Py) Ex p enclosures

ATEX II 2G Ex mb e ia [px][ia] IIC T4

-30°C to +60°C

IP66

Overview

The iPURGE200 purge control unit is designed to provide a safe and reliable method of controlling and monitoring of the purge and operation cycle of Ex p enclosures destined for Zone 1. The iPURGE200 is designed as a part of a system conforming to EN60079-2 for purge type px.

The iPURGE200 controls the flow of purge gas by the use of an optional valve, allowing the control of the purge cycle and normal operating pressure within a pressurised enclosure. The controller is supplied with one volt free output which can be configured to indicate a large number of alarms or status. The device has digital LCD display, settings are made via a simple push button and selector switch. The iPURGE200 utilises redundant microcontrollers to provide the necessary redundancy to control a Zone 1 purge system.

Features and Benefits

Configurable Output

The control unit provides a programmable relay output for status or alarms.

Optional Remote Display

A remote display is available for internally mounted units.

Rugged Enclosure

GRP Enclosure complete with Exe terminals.

Mounting Options

Can be internally or Externally Mounted.

Flow Options

Both high and standard flow options available

Flexible Purge Modes

Flexible purge modes to copy with dilution and leakage compensation

Specification

Certification Number	TUV 04 ATEX 2642
Certification Type	II 2G Ex mb e ia [px][ia] IIC T4
Dimensions	Controller 120mm x 122mm x 90mm, Valve & Pressure Regulator 100mm x 86mm x 133mm (wxhxd)
IP Rating	IP66
Ambient Temperature	-30°C to +60°C
Power Supply	240Vac, 110Vac & 24Vdc Options
Output	Programmable Auxiliary Volt Free Contact
Features	Fast Simple Installation. Easy Setup With Clear Display of Parameters
Maximum Flow	Standard version: 3.2 I/sec, high flow version: 4.8 I/sec. Note these values are theoretical max flow rates based on the controllers exhaust orifice and the max enclosure internal pressure allowed of 40 mbar. Note the maximum enclosure overpressure is dependant upon the strength of your enclosure
Mounting	Internal & External Options

Ordering Information

Description	Part Number
Purge Controller For Zone 1	iPURGE200 [#1] [#2] [#3]
Please Specify [#1] - Power Supply	
230 VAC 48-62 Hz	1
115 VAC 48-62	2
24VDC	3
Please Specify [#2] - Mounting Arrangement	
External (Standard Version)	E
Internal	I
Please Specify [#3] - Flow Rate Option	
High Flow Up to 4.8 litres per second	H
Standard Flow Up to 3.2 Litres per second	S
Digital Inlet Valve With Regulator & Gauge	iPURGEDV [#1]
Please Specify [#1] - Power Supply	
230 VAC 48-62 Hz	1
115 VAC 48-62 Hz	2
24 VDC	3
Proportional Inlet Valve With Regulator & Gauge	iPURGEPV [#1]
Please Specify [#1] - Power Supply	
230 VAC 48-62 Hz	1
115 VAC 48-62 Hz	2
24 VDC	3
Accessories	
Remote Operating Panel	iPURGE200OP
Purge Override Key Switch with Cable	iPURGE200KS
Rain cap for the iPURGE series of purge controllers	iPURGERAINCAP
Stainless Steel Particle Barrier	iPURGEPBSS
Extra high flow outlet and inlet Kit used on enclosures larger than 3000 litres, special purge controllers	iPURGEOV
Are required. Contact Extronics.	