



Certificate of Compliance

Certificate: 2007104

Master Contract: 223077

Project: 2360061

Date Issued: November 16, 2010

Issued to: Purge Solutions

12450 Galveston Road, Suite C
Webster, TX 77598
USA
Attention: Wallace Trochesset

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Rich Masek

Issued by: Rich Masek

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non - Incendive Systems - For Hazardous Locations

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - CERTIFIED TO U.S. STANDARDS

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E,F,G

CYCLOPS Y – Purge Indicator, rated 12 Vdc or 24 Vdc, 0.5W; T6, $-40\text{ }^{\circ}\text{C} \leq \text{Tamb} \leq 65\text{ }^{\circ}\text{C}$. Alarm relay contact rated 265Vac/150mA max, resistive. Intrinsically safe when installed per control drawing DO-11108-A.

- CYCLOPS Indicator Model PSCY-abc where a = 1 for 12 Vdc or 2 for 24 Vdc b = A for aluminum housing or S for stainless steel housing c = blank for gas applications or D for dust applications



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Note 1: The CYCLOPS Y – Purge Indicator is certified as a component only and must be mounted on a suitable enclosure so that the terminals require tool access and where its final combination is subjected to acceptance by CSA International.

Note 2: The actual purge flow and corresponding purge time must be verified once the protective gas system installation is completed.

Note 3: When using a small aluminum Gas Inlet Kit (PSO-SCD-A or PSO-SMLC-A), in combination with the CYCLOPS Y – Purge Indicator, the maximum pressure must be reduced from 300 psig to 150 psig for an ambient temperature above 52 °C.

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - CERTIFIED TO U.S. STANDARDS

Class I, Div 1 and Div2, Groups B, C and D; Class II, Division 1, Groups E,F,G

CYCLOPS X – Purge Controller and TRYCLOPS X – Purge Controller, rated 115Vac/25 A max or 230Vac/12.5 A max, 50/60Hz; alarm relay contacts rated 265Vac, 125 mA; switched load rated 115Vac/25 A or 230Vac/12.5 A resistive only. Temperature Code T4, $-40\text{ °C} \leq T_{amb} \leq 65\text{ °C}$.

- CYCLOPS Controller Model PSC1-ab where a = 1 for 115 Vac or 2 for 230 Vac b = A for aluminum housing or S for stainless steel housing c = blank for gas applications or D for dust applications
- TRYCLOPS Controller Model PST-abc where a = 1, 2 or 3 to designate the number of pressurized enclosure that can be monitored b = 1 for 115 Vac or 2 for 230 Vac c = A for aluminum housing or S for stainless steel housing

Note 1: The actual purge flow and corresponding purge time must be verified once the protective gas system installation is completed.

Note 2: When monitoring more than one pressurized enclosure with a TRYCLOPS Controller, only one enclosure may have a Inlet Kit with a solenoid and only one enclosure may be powered directly from the TRYCLOPS Controller.



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Note 3: When using the small aluminum Gas Inlet Kit (PSO-SALC-D1A, PSO-SALC-D2A, PSO-SCD-A, and PSO-SMLC-A) in combination with the TRYCLOPS or CYCLOPS X – Purge Controllers, XP Version, the maximum pressure must be reduced from 300 psig to 150 psig for an ambient temperature above 52 °C.

Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups E,F,G

CYCLOPS Z – Purge Indicator - rated 12 Vdc, 24 Vdc, 115 Vac or 230 Vac, 0.5VA; T6, $-40\text{ }^{\circ}\text{C} \leq T_{amb} \leq 65\text{ }^{\circ}\text{C}$. Alarm relay contact rated 265Vac/150mA max, resistive.

- CYCLOPS Indicator Model PSCZ-abc where a = 1 for 12 Vdc, 2 for 24 Vdc, 3 for 115 Vac or 4 for 230 Vac. b = A for aluminum housing or S for stainless steel housing c = blank for gas applications or D for dust applications

Note 1: The Cyclops Z-Purge Indicator is certified as component only and must be mounted on a suitable enclosure so that the terminals require tool access and where its final combination is subjected to acceptance by CSA International.

Note 2: The actual purge flow and corresponding purge time must be verified once the protective gas system installation is completed.

Note 3: When using the small aluminum Gas Inlet Kit (PSO-SCD-A, and PSO-SMLC-A) in combination with the CYCLOPS Z – Purge Indicator, the maximum pressure must be reduced from 300 psig to 150 psig for an ambient temperature above 52 °C.

APPLICABLE REQUIREMENTS

CYCLOPS Y – Purge Indicator and CYCLOPS Z – Purge Indicator

CAN/CSA-C22.2 No. 0-M91 - General Requirements – Canadian Electrical Code, Part II

CSA C22.2 No. 142-M1987 - Process Control Equipment

CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

CSA C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA-C22.2 No. 60529:05 - Degree of protection provided by enclosures (IP Code)

NFPA 496-2008 - Purged and Pressurized Enclosures for Electrical Equipment



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UL No. 913, 7th Ed. - Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations

UL 916, December 23/1998 - Energy Management Equipment

UL No.1604-1994 - Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations

CYCLOPS X – Purge Controller , XP Version and TRYCLOPS X – Purge Controller, XP Version

CAN/CSA C22.2 No. 0-M91 (R2001) - General Requirements - Canadian Electrical Code, Part II

CSA C22.2 No. 142-M1987 - Process Control Equipment

CSA C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CAN/CSA-C22.2 No. 60529:05 - Degree of protection provided by enclosures (IP Code)

NFPA 496-2008 - Purged and Pressurized Enclosures for Electrical Equipment

UL No. 508, 17th Ed., Revs to Jul 2005 - Industrial Control Equipment

UL No. 913, 7th Ed. - Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations

UL No. 916, 3rd Ed. March 2006 - Energy Management Equipment

UL No. 1203, 4th Ed. Sept. 2006 - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations

MARKINGS

All CYCLOP AND TRYCLOPS models

- Manufacturer's name or CSA Master Contract Number "223077", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- The CSA Mark with "C" and "US" indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation, as specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.

CYCLOPS Y – Purge Indicator and CYCLOP Z-Purge Indicator

- The symbol "Exia" for Div 1 version;
- Reference to installation instructions for Division 1 version; and



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- Division 2 version - Caution: "Do not disconnect unless power is switched-off or the area is known to be non-hazardous location"

CYCLOPS X – Purge Controller , XP Version and TRYCLOPS X-Purge Controller, XP Version

- Caution: "Enclosure Shall Not Be Opened Unless Power Is Removed or Area Is Known to Be Non-Hazardous"; and
- Caution: "Conduit Must Be Sealed Within 18 inches of Purge Controller"