CSA GROUP™

Certificate of Compliance

Certificate: 1427339

Project: 80018218

Issued To: R.C. Systems Co., Inc.
8621 Hwy 6
Hitchcock, Texas, 77563
United States

Attention: Joshua Carter

Master Contract: 219995

Date Issued: 2020-03-11

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.

Issued by: *Konstantin Rybalko*
Konstantin Rybalko

C ® US

PRODUCTS

CLASS 3631-04 – ELECTRICAL MEASUREMENT AND TEST EQUIPMENT
CLASS 3631-84 – ELECTRICAL EQUIPMENT FOR MEASUREMENT USE - Certified to U.S. Standards

1) Sixteen or Eight Channel Controller, model ST-71, ViewSmart 1600 and 7100, rated 110-120/220-240 V, 50/60 Hz, 3.2/1.6 A, Rated output 24 V dc, 6.5 A or 100 – 240 V ac, 50 – 60 Hz, 1.1 A max. or 10 – 30 V dc, 150 W max.

2) Six Channel Controller, model ST-35, rated 100 – 240 V, 50/60 Hz, 2.0 A.

   Operating temperature range –20 to +60 °C, relative humidity 0 to 90% (non-condensing).

Conditions of Certification:

1) The equipment is intended to be connected to supply mains with a suitable conduit according to the applicable local and national (CEC & NEC) regulations. Power supply cord and its entry inside the enclosure was not part of the investigation.

2) The suitability of the combination for rack mounting must be determined during the end usage.

3) The unit is tested for electrical safety required to be used in ordinary location where no combustible, explosive, and ignitable material present. The Certification does not cover the use in the hazardous locations nor the use of equipment as a personal safety device.

CLASS 4828 01 - SIGNAL APPLIANCES - Combustible Gas Detection Instruments - For Hazardous Locations
CLASS 4828 81 - SIGNAL APPLIANCES - Combustible Gas Detection Instruments - For Hazardous Locations
     -CERTIFIED TO U.S. STANDARDS

Class I, Div. 2, Groups A, B, C and D, T4;

Sixteen or Eight Channel Controller, Model: ST-71, ViewSmart 1600 and 7100; Rated Input: 100 – 240 V ac, 50 – 60 Hz, 1.1 A max. or 110-120/220-240 V, 50/60 Hz, 50/60 Hz, 3.2/1.6 A, Rated output 24 V dc, 6.5 A or 10 – 30 V dc, 150 W max. Mechanical relay contacts rated 250Vac, 5.0A. Contains the following PCB's: Main I/O PCB with common relays # 10-0142. May be used with the following optional boards: Aux. Relay piggyback pcb # 10-0144, 4-20mA Analog output pcb # 10-0167, Analog input pcb # 10-0158, Catalytic Bead sensor input pcb # 10-0191(1000 ppm max input), Dual Channel Catalytic Bead Module # 10-0192, Discrete Relay PCB # 10-0195 and FHSS Wireless Interface boards 10-0357, 10-0358, 10-0364, 10-0365.

Model: ST-72, WX64, C64, HA72, ViewSmart 6400 (up to 64 channels) and ViewSmart 1600+ (up to 16 channels) Graphic Display and Alarm Controller, may be configured as a 16, 32 48 or 64 channel controller. Rated Input: 100 – 240 V ac, 50 – 60 Hz, 1.1 A max. or 10 – 30 V dc, 150 W max. or 110-120/220-240 V, 50/60 Hz, 3.2/1.6 A, Rated output 24 V dc, 6.5 A or with optional power supply Rated Input: 85-264 V, 50/60 Hz 8.5 A, Rated output 24 V dc, 600 Watts. Mechanical relay contacts rated 250Vac, 5.0A. Contains the following PCB's: Main CPU board # 10-0330, Button Board #10-0342, Card Reader Board #10-0343, Main I/O Board # 10-0331. May be used with the following optional boards: Comm expansion # 10-1279, Relay expansion board #10-0332, Analog input board #10-0334, Bridge input board #10-0347, (Catalytic Bead sensor 1000 ppm max), Dual Channel Bridge Module # 10-0192, Analog output board # 10-0248, Relay output board #10-0345, Programmable relay output board #10-0350 and FHSS Wireless Interface boards 10-0357, 10-0358, 10-0364, 10-0365.

Operating temperature range –20°C to 60°C

Conditions of Certification:

1) The equipment is intended to be connected to supply mains with a suitable conduit according to the applicable local and national (CEC & NEC) regulations. Power supply cord and its entry inside the enclosure was not part of the investigation.

2) The suitability of the combination for rack mounting must be determined during the end usage.

3) Performance verified using Analog input board #10-0344 or Analog input PCB # 10-0158, 4-20mA input and configured in LEL mode.

4) When equipped with LRS-150F-24 power supply, the current consumption of the external devices powered by the equipment at 24 V dc shall not exceed 2 A.

CLASS 4828 02 - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations
CLASS 4828 82 - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations –
         CERTIFIED TO U.S. STANDARDS

Class I, Div. 2, Groups A, B, C and D, T4;

Sixteen or Eight Channel Controller, Model: ST-71, ViewSmart 1600 and 7100; Rated Input: 100 – 240 V ac, 50 – 60 Hz, 1.1 A max. or 110-120/220-240 V, 50/60 Hz, 3.2/1.6 A, Rated output 24 V dc, 6.5 A or 10 – 30 V dc, 150 W max. Mechanical relay contacts rated 250Vac, 5.0A. Contains the following PCB's: Main I/O PCB with common relays # 10-0142. May be used with the following optional boards: Aux. Relay piggyback pcb # 10-0144, 4-20mA Analog output pcb # 10-0167, Analog input pcb # 10-0158, Discrete Relay PCB # 10-0195 and FHSS Wireless Interface boards 10-0357, 10-0358, 10-0364, 10-0365.

Model: ST-72 WX64, C64, HA72, ViewSmart 6400 (up to 64 channels) and ViewSmart 1600+ (up to 16 channels) Graphic Display and Alarm Controller, may be configured as a 16, 32 48 or 64 channel controller. Rated Input: 100 – 240 V ac, 50 – 60 Hz, 1.1 A max. 10 – 30 V dc, 150 W max. or 110-120/220-240 V, 50/60 Hz, 3.2/1.6 A, Rated output 24 V dc, 600 Watts or with optional power supply Rated Input: 85-264 V, 50/60 Hz 8.5 A, Rated output 24 V dc, 600 Watts. Mechanical relay contacts rated 250Vac, 5.0A. Contains the following PCB's: Main CPU board # 10-0330, Button Board #10-0342, Card Reader Board #10-0343, Main I/O Board # 10-0331. May be used with the following optional boards: Comm expansion # 10-1279, Relay expansion board #10-0332, Analog input board #10-0334, Bridge input board #10-0347, Dual Channel Bridge Module # 10-0192, Analog output board # 10-0248, Relay output board #10-0345, Programmable relay output board #10-0350 and FHSS Wireless Interface boards 10-0357, 10-0358, 10-0364, 10-0365.

Operating temperature range –20°C to 60°C

Conditions of Certification:

1) The equipment is intended to be connected to supply mains with a suitable conduit according to the applicable local and national (CEC & NEC) regulations. Power supply cord and its entry inside the enclosure was not part of the investigation.

2) The suitability of the combination for rack mounting must be determined during the end usage.

3) When equipped with LRS-150F-24 power supply, the current consumption of the external devices powered by the equipment at 24 V dc shall not exceed 2 A.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 1010.1-92	-	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use, Part 1: General Requirements
ANSI/ISA S82.02.01-99	-	Safety Standard for Electrical and Electronic Test, Measuring, Controlling, and Related Equipment – General Requirements
C22.2 No. 142-M1987	-	Process Control Equipment
CAN/CSA-C22.2 No.152-M1984	-	Combustible Gas Detection Instruments
ANSI/ISA-12.13.01-2000	-	Performance Requirements for Combustible Gas Detectors.
CSA-C22.2 No. 213-M1987	-	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
ANSI/ISA-12.12.01-2010	-	Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations.

Supplement to Certificate of Compliance

Certificate: 1427339　　　　　　　　　　　　　　**Master Contract:** 219995

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80018218	2020-03-11	Update to report 1427339 for alternate construction of model ST-72, addition of "ViewSmart 1600+" 16 channel version, alternate power supply, alternate names for models ST-71 and ST-72.
70101335	2016-10-04	Update to Certificate 1427339 for non-conformance issues as noted in FIR dated Sept. 15, 2016 (FC# 233742) Label difference, report update for input ratings
2380426	2012-01-26	Update of report 1427339 to cover new Models ST-72, WX64, C64 and HA72 and add radio modules to the Div. 2 versions of the ST-71 and 7100.
1562822	2004-07-29	Update report 1427339 to cover new model 7100
1458712	2004-05-18	Update report 1427339 to include performance testing and division 2
1427339	2003-04-21	Original certification