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Warnings and Cautionary Statements

IMPORTANT: Failure to perform certain procedures or note certain conditions may impair the performance of this product. For maximum safety and optimal performance, please read and follow the procedures and conditions listed below.

IMPORTANT: Read and understand this manual before operating.

IMPORTANT: There are no user serviceable parts contained inside.

IMPORTANT: It is the responsibility of the end user to select and install the correct grounded AC plug for the AC power and hazardous location rating as defined by the local Authority having Jurisdiction (AHJ).

IMPORTANT: Install this device with a grounded plug and power circuit.

IMPORTANT: The output short-circuit protection is a fuse. Do not expose the DC output cable to a direct short circuit or electrostatic discharge.

IMPORTANT: Only clean using a damp cloth.

IMPORTANT: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

The instrument complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modification made that are not expressly approved by the manufacturer could void the user’s authority to operate the equipment.

IMPORTANT: This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT: Refer to control drawing for approved Industrial Scientific accessories for hazardous location installation parameters.

IMPORTANT: Reportez-vous au dessin de contrôle pour les accessoires scientifiques industriels approuvés pour les paramètres d'installation de localisation dangereuse.

WARNING: FLYING LEADS MUST BE PROTECTED FROM PHYSICAL DAMAGE.

WARNING: AC POWER LEADS MUST BE TERMINATED IN A SUITABLE CERTIFIED TERMINAL ENCLOSURE OR PLUG OR IN A DESIGNATED SAFE AREA PRIOR TO USE.

WARNING: ENSURE THAT THE AC POWER INPUT CABLE IS ADEQUATELY CLAMPED AND SUPPORTED UPON INSTALLATION.

WARNING: DO NOT OPEN, MAINTAIN OR SERVICE IN AN AREA WHERE AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.

AVERTISSEMENT: NE PAS OUVIR, MAINTENIR OU SERVICE DANS UNE ZONE OU UNE ATMOSPHER EXPLOSIVE PEUT ETRE PRESENTEE.

WARNING: EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE LAMPS, FUSES OR PLUG-IN MODULES (AS APPLICABLE) UNLESS POWER HAS BEEN DISCONNECTED OR THE AREA IS FREE OF IGNITIBLE
CONCENTRATIONS.

**AVERTISSEMENT:** RISQUE D'EXPLOSION. NE PAS RETIRER OU REMPLACER LES LAMPE, LES FUSIBLES OU LES MODULES PLUG-IN (SANS APPLICABLE) À MOINS QUE LA PUISSANCE A ÉTÉ DÉCONNECTEE OU LA ZONE EST LIBRE DE CONCENTRATIONS IGNITABLES.

⚠️ **WARNING** - EXPLOSION HAZARD, AC INPUT POWER CONNECTIONS TO ONLY BE MADE WITH AC POWER PLUG RATED FOR THE HAZARDOUS LOCATION. READ AND UNDERSTAND MANUAL FOR INSTALLATION INSTRUCTIONS.

⚠️ **AVERTISSEMENT** - RISQUE D'EXPLOSION, CONNEXIONS D'ALIMENTATION D'ENTRÉE D'AC À SEULEMENT FABRIQUÉE AVEC PLAQUE D'ALIMENTATION ÉLECTRIQUE ÉNONCÉE POUR LA LOCALISATION DANGEREUSE. LIRE ET COMPRENDRE MANUEL D'INSTRUCTIONS D'INSTALLATION.

⚠️ **WARNING:** SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY AND MAY CAUSE AN UNSAFE CONDITION.

⚠️ **AVERTISSEMENT:** LA SUBSTITUTION DES COMPOSANTS PEUT IMPAIR LA SÉCURITÉ INTRINSÉQUE ET PEUT ENTRAÎNER UN CONDITION NON SUSCEPTION.

⚠️ **CAUTION:** For safety reasons, this equipment must be operated and serviced by qualified personnel only. Read and understand the instruction manual completely before operating or servicing.

⚠️ **ATTENTION:** Pour des raisons de sécurité, cet équipement doit être utilisé et entretenu uniquement par un personnel qualifié. Étudier le manuel d'instructions en entier avant d'utiliser, d'entretenir ou de réparer l'équipement.
Product Information

Overview

The Intrinsically Safe Extended Run Time Power Supply (ISERTPS) is an AC to DC power converter. It is used with its compatible Intrinsic Safety Cable (IS Cable) to extend the run time of compatible Industrial Scientific products only. Designed for short-term (not permanent) installation or placement in the area classifications for which it is certified, the ISERTPS is transportable for easy deployment and site-to-site relocation.

Key Features

The ISERTPS has the following protection features.

- Overcurrent protection: limited to 0.618 amperes.
- Overvoltage protection: limited to 16.2 volts.
- Brownout protection: down to 85 VAC input.

The ISERTPS can be vertically wall- or pole-mounted, horizontally mounted or secured to a flat, stable surface, or placed on the ground. It has six fastener openings, four that accommodate bolts and two that accommodate straps.
Certification Summary
Certified hazardous zone uses known at the time of this document’s publication are listed below in Table 1.1.

Table 1.1 ISERTPS and IS Cable hazardous area certifications

<table>
<thead>
<tr>
<th>Certifying Body</th>
<th>Area Classificationa</th>
<th>Approved Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSA (US)</td>
<td></td>
<td>–20 °C to +55 °C (–4 °F to + 131 °F)</td>
</tr>
<tr>
<td>Intrinsically Safe Extended Runtime Power Supply (ISERTPS)</td>
<td>Class I, Division 2, Groups A, B, C, D T4 (with I.S. Output for Div 1 locations)</td>
<td></td>
</tr>
<tr>
<td>Intrinsic Safety Cable (IS Cable)</td>
<td>Div 1</td>
<td></td>
</tr>
<tr>
<td>CSA (Canada)</td>
<td></td>
<td>–20 °C to +55 °C (–4 °F to + 131 °F)</td>
</tr>
<tr>
<td>Intrinsically Safe Extended Runtime Power Supply (ISERTPS)</td>
<td>Ex nA [ia Ga] IIC T4 Gc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLASS I, ZONE 2, AEx nA [ia Ga] IIC T4 Gc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ex ec [ia Ga] IIC T4 Gc</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CLASS I, ZONE 2, AEx ec [ia Ga] IIC T4 Gc</td>
<td></td>
</tr>
<tr>
<td>Intrinsic Safety Cable (IS Cable)</td>
<td>Zone 0/1</td>
<td></td>
</tr>
</tbody>
</table>

aTo determine the hazardous-area classifications for which a unit is certified, refer to its label.
Comaptibilities

The unit's *ac input cord* can be connected to a customer-supplied, compatible power plug, which can be plugged into a compatible power receptacle.

The unit's *intrinsic safety output cable assembly* features a port that accepts the connector on the compatible IS Cable from Industrial Scientific, which can be connected to a compatible Industrial Scientific product.

<table>
<thead>
<tr>
<th>Table 1.2 ISERTPS compatibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item</strong></td>
</tr>
<tr>
<td>Industrial Scientific products</td>
</tr>
<tr>
<td>Radius BZ1 Area Monitor</td>
</tr>
<tr>
<td>Intrinsic safety cable (part number 17156261)</td>
</tr>
<tr>
<td>Customer-supplied equipment and services</td>
</tr>
<tr>
<td>Hazardous location arc-proof, grounded ac power plug</td>
</tr>
<tr>
<td>90–250 VAC electrical receptacle</td>
</tr>
<tr>
<td>Fasteners</td>
</tr>
</tbody>
</table>
Specifications

The data supplied in tables 1.3 and 1.4 and figures 1.1 and 1.2 are provided to support the successful setup and operation of the ISERTPS.

Table 1.3 ISERTPS and IS Cable specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (length x width x depth)</td>
<td>35 cm x 31.15 cm x 12.98 cm (13.78&quot; x 12.26&quot; x 5.11&quot;); excludes lengths of AC input cord and output cables</td>
</tr>
<tr>
<td>Weight</td>
<td>7.3 kg (16.1 lb) without IS Cable</td>
</tr>
<tr>
<td></td>
<td>10.2 kg (22.5 lb) with IS Cable</td>
</tr>
<tr>
<td>Materials</td>
<td>Fiberglass reinforced polyester with bare aluminum cover and bare aluminum back panel</td>
</tr>
<tr>
<td>Ingress protection</td>
<td>IP54</td>
</tr>
<tr>
<td>Wet location rated</td>
<td>Yes</td>
</tr>
<tr>
<td>AC input cord</td>
<td>3 conductor, 12 ga flexible heavy-usage rated</td>
</tr>
<tr>
<td>Color</td>
<td>Yellow</td>
</tr>
<tr>
<td>Length</td>
<td>5 m (16.4’)</td>
</tr>
<tr>
<td>Wires</td>
<td>3 wires: green wire (Earth Safety Ground) black wire (line 1), and white wire (line 2 or neutral)</td>
</tr>
<tr>
<td>Output cables</td>
<td>Two; blue cables with black connectors and tethered connector cap(s)</td>
</tr>
<tr>
<td>Intrinsic Safety output cable assembly</td>
<td>2 conductor, factory-installed for connection only to approved Industrial Scientific Corporation products</td>
</tr>
<tr>
<td>Intrinsic Safety cable</td>
<td>50 m (164’) long</td>
</tr>
<tr>
<td>Buttons</td>
<td>None</td>
</tr>
<tr>
<td>Indicators</td>
<td>None</td>
</tr>
<tr>
<td>Operating conditions</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>Not in direct sunlight: –20 °C to +55 °C (–4 °F to +131 °F)</td>
</tr>
<tr>
<td></td>
<td>In direct sunlight: –20 °C to +40 °C (–4 °F to +104 °F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>20–90% relative humidity (RH) noncondensing (continuous)</td>
</tr>
<tr>
<td>Altitude</td>
<td>Use only at altitudes of less than 2000 m (6560’)</td>
</tr>
<tr>
<td>Installation conditions</td>
<td>Pollution Degree 2</td>
</tr>
<tr>
<td></td>
<td>Installation Category II</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>–40 °C to +75 °C (–40 °F to +167 °F)</td>
</tr>
</tbody>
</table>
### Table 1.4 ISERTPS input and output parameters

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input parameters</strong></td>
<td></td>
</tr>
<tr>
<td>Input voltage range</td>
<td>90–250 VAC</td>
</tr>
<tr>
<td>Input frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Maximum steady-state current</td>
<td>0.31–0.63 A</td>
</tr>
<tr>
<td>Power-source branch breaker</td>
<td>Rating must not exceed 20 A</td>
</tr>
<tr>
<td><strong>Output parameters</strong></td>
<td></td>
</tr>
<tr>
<td>Open-circuit voltage</td>
<td>+12.50 VDC ± 0.1% (factory adjusted)</td>
</tr>
<tr>
<td>Loaded output current</td>
<td>150 mA minimum at 8.50 V</td>
</tr>
<tr>
<td>Output voltage Uo</td>
<td>16.2 VDC</td>
</tr>
<tr>
<td>Loaded output Current Io</td>
<td>0.618 A</td>
</tr>
<tr>
<td>Power Po</td>
<td>2,200 mW</td>
</tr>
<tr>
<td>Capacitor Ca</td>
<td>0.62 µF</td>
</tr>
<tr>
<td>Inductance La</td>
<td>0.093 mH</td>
</tr>
</tbody>
</table>

*Note:* When added together, the Li and Ci entity parameters of the compatible Industrial Scientific power-supply accessory plus the total from the IS Cable must not exceed the power supply entity parameters for Lo and Co. Refer to control drawing 1810D9516-200 in Figure 1.1.
HAZARDOUS LOCATION

CLASS I, ZONE 0, GROUP B C
CLASS I, ZONE 1, GROUP D WITH IR SENSOR INSTALLED
CLASS I, DIVISION 1, GROUPS A, B, C, D

Fig. 1.1 Control drawing 1810D956-200 revision 3

WARNING: CONNECT AND USE THE STANDARD CHARGING PORT IN NON-HAZARDOUS AREAS, ONLY.

1. The intrinsic safe charging port can be connected to the following runtime power supply in hazardous areas.

2. Associated apparatus shall be installed per manufacturer's installation instructions. All wiring of intrinsically safe circuits must be installed per national and/or local codes, standards, and regulations. (e.g. NEC Article 504, CEC Section 18)

3. All batteries from safecore modules and unused parts are to be installed in a non-hazardous area by trained personnel only.

4. Installation of safecore sensors in non-hazardous areas, only.

5. Associated apparatus may be installed in a division 2 or zone 2 location.

6. Control equipment must not use or generate more than 250V RMS or DC with respect to earth.

7. Use only with ISC cable 17560241.

FIGURE 1.1

EXTERNAL 1/5 POWER PORT

P.C. Connector
14-16 AWG
12.5A
P = 3300W
Cav = 175
L = 66m

Typical ISC power cable parameters:
- SCABLE: 750 km
- ICABLE: 22 m2/m

1/5 POWER CABLE (500 m), 17560241

1/5 EXTENDED RUNTIME POWER SUPPLY

EMT PARAMETERS:
- V = 14.2V
- I = 4.1A
- C = 1.8 kVA
- L = 9.36 m
- F = 2.05 kVA
Hardware Overview

The main components of the ISERTPS are shown below and referred to throughout this manual.

Fastener openings
- 4 round: 7.14 mm diameter openings accommodate 7 mm bolts
- 2 rectangular openings accommodate straps

Intrinsic safety (IS) output cable assembly
- IS Cable
- AC input cord (yellow)
- Green wire (Earth Safety Ground)
- Black wire (line 1)
- White wire (line 2 or neutral)

Figure 1.2 Hardware overview
Setup, Operation, and Service

Setup

Only qualified personnel should complete setup.

Unpack

Each ordered item should be accounted for during the unpacking process. If any item is missing or appears to have been damaged, contact Industrial Scientific (see back cover) or an authorized distributor of Industrial Scientific products.

Table 2.1 Package contents

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>As ordered</td>
<td>Intrinsically Safe Extended Run Time Power Supply (ISERTPS)</td>
<td>—</td>
</tr>
<tr>
<td>As ordered</td>
<td>Intrinsic Safety Cable (IS Cable)</td>
<td>—</td>
</tr>
<tr>
<td>1</td>
<td>Insert</td>
<td>Warnings and Cautionary Statements</td>
</tr>
</tbody>
</table>

Customer-supplied equipment and services

Use of the ISERTPS requires the customer acquisition and connection of a compatible electrical power plug, the mounting or placement of the unit, and the provision of a compatible electrical receptacle. Ensure the completion of these tasks and all customer-supplied equipment, services, and tools comply with and are used in ways that meet any restrictions imposed by the hazardous location; local, state, or national codes, regulations, standards, permits, or other requirements; and the AHJ.

Site considerations and setup

To help prevent injury and damage to the equipment, generally handle the unit with care and avoid dropping it. If dropped, inspect all aspects of the unit for damage; if any damage is detected, replace the unit.
Choose an installation location for the ISERTPS that facilitates the desired placement: vertically mounted on a pole or wall, horizontally secured to a flat, stable surface, or placed on ground. Ensure the location achieves the following:

- Meets all product **specifications** for operation such as ambient temperature and humidity. Note the reduced upper-limit temperature for a unit that is placed in direct sun.
- Provides a mounting surface that permits the recommended use of all four bolt openings or both mounting strap openings, depending on the mounting choice.
- Ensures the mounting (or placement) surface, with the customer-supplied mounting equipment, will support the product's full weight.
- Provides proximity for the product's ac input cord to reach a hazardous-location receptacle that meets all product specifications such as voltage requirements and that meets the requirements of the AHJ.
- Permits the cord and cable to extend—without incurring sideways or lateral forces—from the unit to the electric receptacle and the compatible Industrial Scientific product, respectively.
- Situates the unit and its cable and cord connections away from standing water or accumulating snow.
- Permits the secure placement of the unit, cord, and cable in a manner that helps prevent injury, damage to the equipment, or excessive strain to the cord or cables.

**Instruction**

Follow the instruction provided below in Figures 2.1 and 2.2, respectively, to set up and disconnect the ISERTPS.
Install plug

Mount, then power on the unit

Connect IS Cable to the unit

This work is to be completed only by qualified personnel and meet the approval of the AHJ.

- Connect the customer-supplied compatible electrical plug to the unit’s ac input cord.
- Secure the unit to the surface on which it is to be mounted or placed. Four round and two rectangular fastener openings are available for use.
- To power on the unit, plug it into the compatible outlet.

At the end of the cable assembly, turn the port cap counterclockwise to expose the port for use.

Leave the cap tethered to the assembly to help prevent loss of the item.

Note: When not in use, cap the port.

Connect IS Cable to the compatible Industrial Scientific product (Radius BZ1 shown)

Connect the IS Cable to the port and turn its swivel connector clockwise (approximately 45°) until it clicks closed.

On the compatible Industrial Scientific product, turn the port cap counterclockwise to expose the port for use.

Leave the cap tethered to the product to help prevent loss of the item.

Connect the IS Cable to the port and turn its swivel connector clockwise (approximately 45°) until it clicks closed.

If connected to a Radius BZ1 Area Monitor, verify that the power-supply symbol () is featured on the instrument’s display. This symbol indicates the instrument is receiving power.

Figure 2.1 Setup
The IS Cable can be disconnected from and connected to any compatible Industrial Scientific product in-field. This allows one product to be removed from service as another is put into service.

Disconnect the cable from the compatible Industrial Scientific product: turn its swivel connector counterclockwise (approximately 45°).

Cap the port: push the cap slightly, then turn its swivel connector clockwise (approximately 45°) until it clicks closed.

If the cable is not to be connected to another compatible Industrial Scientific product, disconnect it from the ISERTPS: turn its swivel connector counterclockwise (approximately 45°).

Cap the cable port on the ISERTPS: push the cap slightly, then turn its swivel connector clockwise (approximately 45°) until it clicks closed.

Disconnect the power cord from the power source.

---

Figure 2.2 Disconnecting the ISERTPS

Operation

The ISERTPS has no status lights or power indicators.

- To cycle power, disconnect the plug from its receptacle.
- If connected to a Radius BZ1, periodically check the instrument's display screen—during operation—for the presence of the power-supply symbol (UPS).

When the IS Cable is not connected to the ISERTPS, cap the unit's cable port.

Use caution when touching the unit as it can become very hot depending on ambient temperature, exposure to direct sun, and other conditions.

Periodically inspect the ISERTPS and all aspects of its IS output cable assembly and ac input cord to detect possible physical damage. If any damage is observed, replace the unit. Likewise, inspect the IS Cable for possible damage and replace it when needed.

Note: The ISERTPS exterior, bare aluminum cover will darken and dull in appearance over time. These changes do not impact the performance or integrity of the materials.
Service

The ISERTPS aluminum cover, enclosure, and internal components are not customer serviceable. Do not remove the cover and do not open the enclosure. The tethered port cap is the only external customer-serviceable item on the ISERTPS. It can be reattached or replaced as shown below.

Turn the port cap counterclockwise to expose the port.

Gently pull on the cap to detach it from the assembly.

To attach the replacement cap, place its loop around the connector neck, behind the raised notches.

Cap the cable port on the ISERTPS: push the cap slightly, then turn its swivel connector clockwise (approximately 45°) until it clicks closed.

Always cap the cable port when it is not in use.

Figure 2.3 Port cap replacement
Warranty

Industrial Scientific Corporation’s Intrinsically Safe Extended Run Time Power Supply is warranted to be free from defects in material and workmanship for a period of two years after purchase.

Limitation of Liability

THE WARRANTY SET FORTH ABOVE IS STRICTLY LIMITED TO ITS TERMS AND IS IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW, COURSE OF DEALING, USAGE OF TRADE OR OTHERWISE. INDUSTRIAL SCIENTIFIC MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

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It shall be an express condition to Industrial Scientific’s warranty that all products be carefully inspected for damage by Buyer upon receipt, be properly calibrated for Buyer’s particular use, and be used, repaired, and maintained in strict accordance with the instructions set forth in Industrial Scientific’s product literature. Repair or maintenance by non-qualified personnel will invalidate the warranty, as will the use of non-approved consumables or spare parts. As with any other sophisticated product, it is essential and a condition of Industrial Scientific’s warranty that all personnel using the products be fully acquainted with their use, capabilities and limitations as set forth in the applicable product literature.

Buyer acknowledges that it alone has determined the intended purpose and suitability of the goods purchased. It is expressly agreed by the parties that any technical or other advice given by Industrial Scientific with respect to the use of the goods or services is given without charge and at Buyer’s risk; therefore, Industrial Scientific assumes no obligations or liability for the advice given or results obtained.
Contact Information

Industrial Scientific Corporation
1 Life Way
Pittsburgh, PA 15205-7500 USA
Web: www.indsci.com
Phone: +1 412-788-4353 or 1-800-DETECTS (338-3287)
E-mail: info@indsci.com
Fax: +1 412-788-8353

Industrial Scientific France S.A.S.
5 Rue Frédéric Degeorge, CS 80097
62002 Arras Cedex, France
Web: www.indsci.com
Téléphone: +33 (0)1 57 32 92 61
E-mail: info@eu.indsci.com
Fax: +33 (0)1 57 32 92 67

英思科传感仪器（上海）有限公司
地址：中国上海市浦东金桥出口加工区桂桥路290号
邮编：201206
电话：+86 21 5899 3279
传真：+86 21 5899 3280
E-mail：info@ap.indsci.com
网址：www.indsci.com
服务热线：+86 400 820 2515

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