

RISCO KNX/Modbus Module Installation Instructions



Model: RP512GKNX

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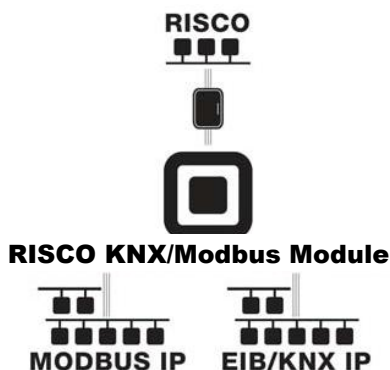
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1 Introduction

The RISCO KNX/Modbus Module is a two-way gateway between RISCO control units (Agility, WiComm Pro, LightSYS, ProSYS, ProSYS Plus, LighSYS Plus, LightSYS AIR via IP connection) and **EIB/IP Knx IP** (DPT 1-bit and 8-bit status) or **Modbus** (Modbus slave 16-bit read / write).

Two-way gateway functions up to 2,500 points (EIB/KNX Group Object or modbus registers readable/ writable from a master Modbus IP). **RISCO KNX/MODBUS MODULE** can be set to run in Modbus IP SLAVE mode or EIB/KNX IP mode.

In ModBus IP SLAVE (IP Server) mode, the gateway can accept up to 3 simultaneous IP connections from 3 different ModBus IP masters (IP Client) on the same 502 default port (the master / slave connection is an “always on line” Client/Server IP connection). In EIB/KNX IP mode, the gateway can be set to connect to the IP KNX network via router or tunnel KNX mode.



Note: In the Web application the name HG-BOX-LIGHT-RISCO-MK refers to the RISCO KNX/Modbus.

2 Hardware

2.1 Case

Mounting	DIN rail (EN 60715), panel or wall
Material	PC / ABS self-extinguishing
Color	Light gray
Support	DIN rail or wall hook
Max Dimensions	w. 71.3mm, h. 90.5mm, d. 62mm

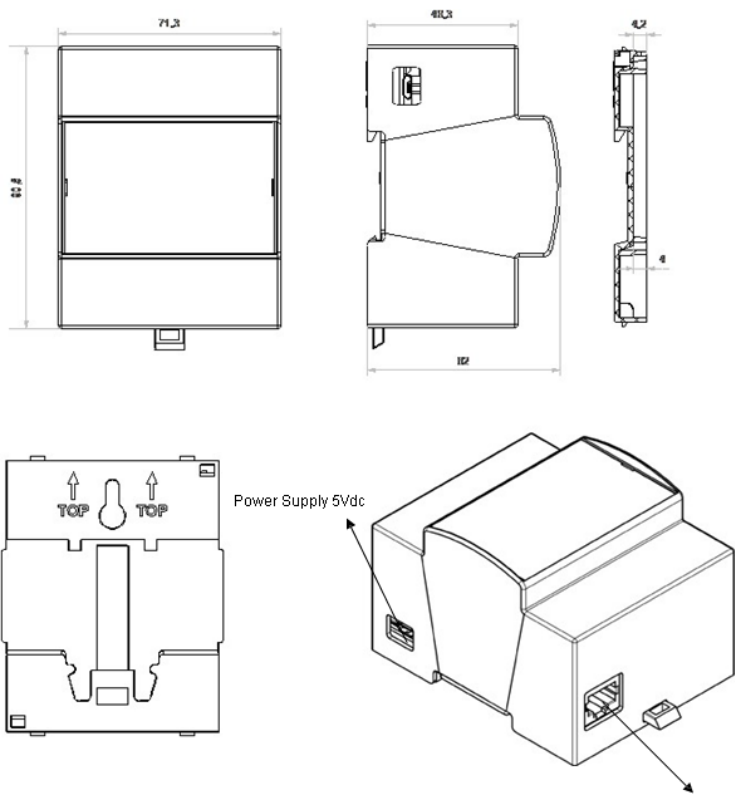


Figure 1- Dimensions and ports



Figure 2- Power supply included in the package

WARNING!

The unit must not be opened.

Any attempt to open the unit could break the components inside and void the Warranty.

2.2 Connection Ports and Power Supply

Figure 1 shows the case for the **RISCO KNX/MODBUS MODULE**.

Connect a LAN network cable to the same network on the RISCO control unit. Use the 5Vdc power supply provided.

There are two Ports on the gateway:

- 1) 1 x microUSB 5VDC 2A power
- 2) 1 x RJ45 port LAN Ethernet 10/100Mbit

2.3 Power Supply

A power supply (plug model) with the following specifications is supplied and packaged with the **RISCO KNX/MODBUS MODULE**:

Specifications	
Input voltage	90 - 264VAC
Input Voltage Frequency	47-63Hz
Input Current	0.3A Max
Output Voltage	+ 5VDC
Output Current	2A
Rated Output Power	10W
Output Cable	1500mm Micro USB B 5 Pin

3 Wiring

The module can function as a gateway to Modbus or as a gateway to KNX.

3.1 Modbus IP

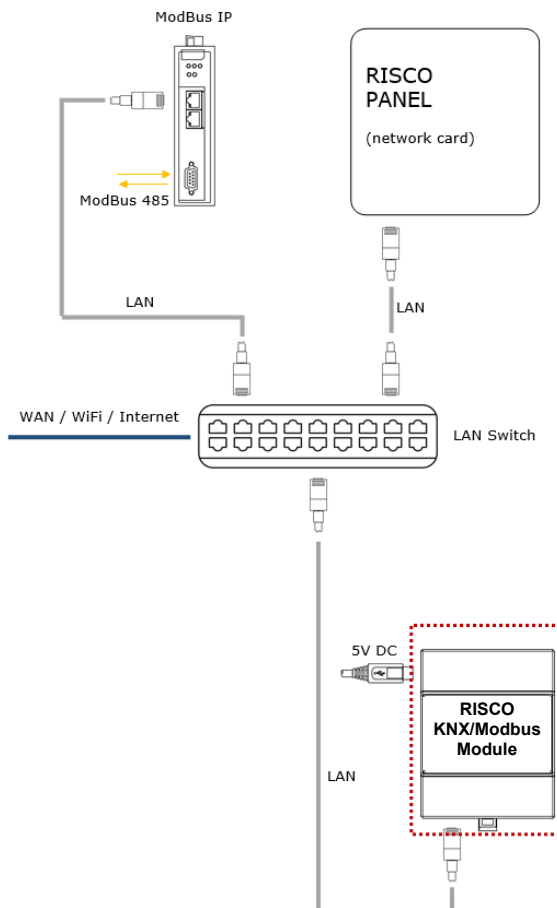


Figure 3- Gateway to Modbus

3.2 EIB/KNX IP

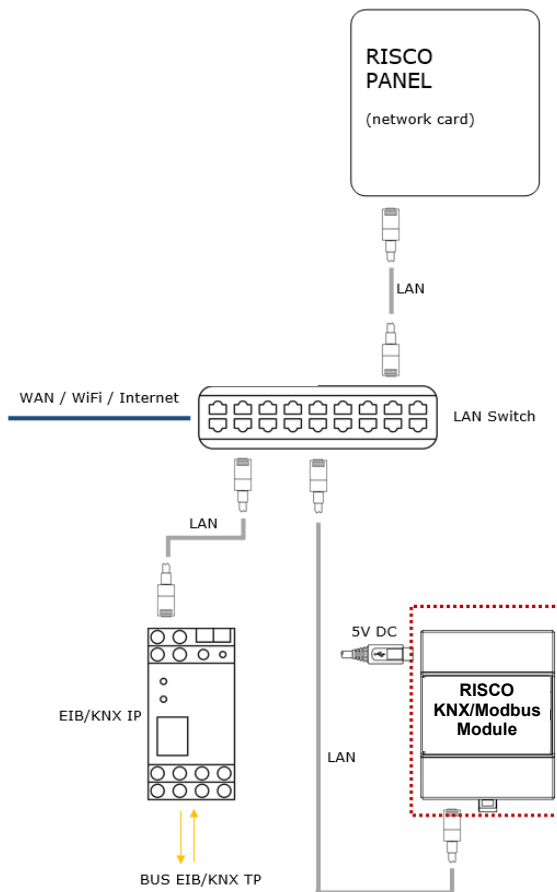


Figure 4- Gateway to KNX

4 Default Parameters and Start Up Settings

4.1 HG-BOX

By default, the **HG-BOX** is defined with the following parameters.

IP address	172.16.137.1
Subnet Mask	255.255.255.0
Gateway	172.16.137.254
WEB CONFIG	http://172.16.137.1

Notes:

1. The Gateway has a back door with a second IP used as DHCP.
2. In case you do not have the IP address of the gateway and if the IP address is not the default one, you can search for the IP address using any IP scanner.

4.2 RISCO Panel

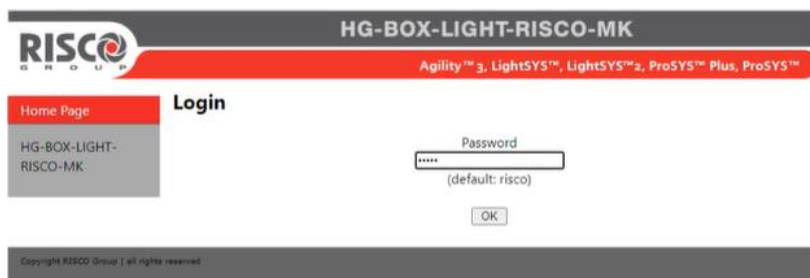
Before connecting the RISCO KNX/MODBUS MODULE to the network, it is necessary to set the RISCO panel TCP IP communication parameters as follows:

1. Under the Communication > TCP/ IP section:
 - a. Disable Automatic IP (DHCP) to assign the panel with Static IP
 - b. Set IP Address: 172.16.137.251
 - c. Set Subnet Mask: 255.255.255.0
 - d. Set IP Port as follows:
 - i. 1000 for panels: Agility, WiComm Pro, LightSYS, ProSYS, ProSYS Plus, LighSYS Plus, LightSYS AIR
 - ii. 502 for panels: ProSYS 16,40,128
2. Under the Configuration Software section:
Check that the remote ID Code is the same that will be programmed in the Gateway.

5 Gateway to Panel Connection

This section describes how to define the settings to establish gateway to panel connection for the Modbus mode and the EIB/KNX mode.

1. From your internet browser, go to the Web Config IP address of the HG Box:
<http://172.16.137.1>
2. Enter your login password and click the OK button to login. The WEB Server default access Password is **risco**.



The screenshot shows the web interface for the RISCO HG-BOX-LIGHT-RISCO-MK. The header includes the RISCO logo and the text "HG-BOX-LIGHT-RISCO-MK" and "Agility™ 3, LightSYS™, LightSYS™2, ProSYS™ Plus, ProSYS™". The left sidebar has a "Home Page" button and a "HG-BOX-LIGHT-RISCO-MK" button. The main area is titled "Login" and contains a "Password" input field with a masked password "*****" and a hint "(default: risco)". Below the input field is an "OK" button. At the bottom, there is a footer that reads "Copyright RISCO Group | all rights reserved".

3. From the left pane under the SYSTEM section, select **Technical parameters**.

5.1 Modbus Mode

1. From the TECHNICAL PARAMETER CONFIGURATION screen select “Modbus mode socket port: 502”.

HG-BOX-LIGHT-RISCO-MK
Agility™ 3, LightSYS™, LightSYS™ 2, ProSYS™ Plus, ProSYS™

TECHNICAL PARAMETER CONFIGURATION

Home

PANEL STATES:

- Partitions States
- Partitions Alarm
- Zones States
- Zones Active
- Zones Alarm State
- Zones Exclusions
- Output O.C.

SYSTEM:

Technical parameters
Activate current web configuration (with reboot)

UTILS:

Control Panel
HG-BOX-LIGHT-RISCO-MK

Logout

Choose language:
🇮🇹 🇬🇧

BOX-LIGHT Parameters

Modbus mode ☒ **EIB/KNX mode** ☐

socket port: 502

IP Address: 192.168.0.92
Subnet Mask: 255.255.255.0

Default Gateway: 172.16.137.254
BOX-LIGHT Password: *****

Control Panels Parameter

Panel Model: ProSYS PLUS ▾
IP Address: 192.168.0.11
Socket Port: 1000

ID Remote Code: 0001
Control Panel State: ON LINE

General utility

Export configuration files

Download a copy of configuration files

Import configuration from Zip file

Nessun file selezionato

Upload a copy of configuration files

2. Set the BOX-Light parameters
3. Set the RISCO Control panel parameters:
 - a. Select the relevant RISCO panel from the list: Agility/ WiComm Pro/ ProSYS Plus*/ LightSYS/LightSYS Plus/ LightSYS Air/ ProSYS 16,40,128
***Note:** If a specific panel is not available, select ProSYS Plus for LightSYS Plus and LightSYS Air.*
 - b. Set the IP address of the panel and its port as defined in the panel under Communication > TCP/IP section.

ATTENTION: When the panel is connected locally to the CS Software, communication between the gateway to the panel cannot be established (via Port 1000). Disconnect the connection between the gateway to the panel and then re-establish the connection.

- c. Set the IP Remote ID as defined in the panel.

Note: The Remote ID code can be changed according to the data programmed on the panel. Both codes, panel and RISCO KNX/MODBUS MODULE, must match.

4. To save programming, click the "SAVE PARAMETERS" button.
5. To send the data to the gateway, from the left pane, select **Activate current web configuration (with reboot)**; a status progress bar will appear at the top of the page.

Note: During this procedure, the unit will restart.



5.2 EIB/KNX Mode

Note: KNX/IP Parameters should be configured by a certified KNX installer.

1. From the TECHNICAL PARAMETER CONFIGURATION screen select "EIB/KNX mode".

RISCO GROUP **HG-BOX-LIGHT-RISCO-MK**
 Agility™ 3, LightSYS™, LightSYS™ 2, ProSYS™ Plus, ProSYS™

TECHNICAL PARAMETER CONFIGURATION
 OK! Activate current web configuration (with reboot) on the left menu before Logout

BOX-LIGHT Parameters

Modbus mode socket port: 502 ☐ EIB/KNX mode ☒

IP Address: 192.168.0.92 Default Gateway: 172.16.137.254
 Subnet Mask: 255.255.255.0 BOX-LIGHT Password: *****

Control Panels Parameter

Panel Model: ProSYS PLUS ID Remote Code: 0001
 IP Address: 192.168.0.16 config. software
 Socket Port: 1000 Control Panel State: ONLINE

KNX/IP Parameters

Multicast Address: 172.16.137.110 Phisical ID: 0 0 254
 TCP Port: 3671 NAT Mode: ☒
 Tempo di Polling: 1000 ms Modalità router: SI
 Max Timeout: 2100 ms
 Gruppo di controllo: (0/0/0 = No check) 12 7 1 KNX/IP Router State: OFFLINE

SAVE PARAMETERS

General utility

Export configuration files
 EXPORT
 Download a copy of configuration files

Import configuration from Zip file
 Scegli file Nessun file selezionato
 IMPORT
 Upload a copy of configuration files

2. Enter the required parameters (such as, the IP address of the Modbus gateway, the panel model, the panel IP address...) and then click the "SAVE PARAMETERS" button.
3. To send the data to the gateway, from the left pane, select **Activate current web configuration (with reboot)**.

6 Modbus Slave Registers Map

Below you will find the data register map that is divided into the following:
Partition for Arm/Disarm; Partition for Alarm; Zones states; Zones Arm/Disarm;
Zones alarm condition; Zones Bypass; Output state.

6.1 PARTITIONS Armed State

Data Type	16 bit unsigned
Reading Type	Holding Register: (0x03)
Writing Types	Write Multiple Register (0x10)/ Write Single Register (0x6)
Allowed Values	0 = Disarmed, 1 = Armed 2 = Stay armed

PARTITION No.	Modbus Reg.no hex	Modbus Reg.no decimal
Partition 1	0x1	1
Partition 2	0x2	2
Partition 3	0x3	3
Partition 4	0x4	4
Partition 5	0x5	5
Partition 6	0x6	6
Partition 7	0x7	7
Partition 8	0x8	8

PARTITION No.	Modbus Reg.no hex	Modbus Reg.no decimal
Partition 17	0x11	17
Partition 18	0x12	18
Partition 19	0x13	19
Partition 20	0x14	20
Partition 21	0x15	21
Partition 22	0x16	22
Partition 23	0x17	23
Partition 24	0x18	24

PARTITION No.	Modbus Reg.no hex	Modbus Reg.no decimal
Partition 9	0x9	9
Partition 10	0xA	10
Partition 11	0xB	11
Partition 12	0xC	12
Partition 13	0xD	13
Partition 14	0xE	14
Partition 15	0xF	15
Partition 16	0x10	16

PARTITION No.	Modbus Reg.no hex	Modbus Reg.no decimal
Partition 25	0x19	25
Partition 26	0x1A	26
Partition 27	0x1B	27
Partition 28	0x1C	28
Partition 29	0x1D	29
Partition 30	0x1E	30
Partition 31	0x1F	31
Partition 32	0x20	32

6.2 PARTITIONS Alarm State

Data Type	16 bit unsigned
Reading Type	Holding Register: (0x03)
Writing Types	READ ONLY
Allowed Values	0 = No Alarm, 1 = ALARM

PARTITION No.	Modbus Reg.no hex	Modbus Reg.no decimal
Partition 1	0x65	101
Partition 2	0x66	102
Partition 3	0x67	103
Partition 4	0x68	104
Partition 5	0x69	105
Partition 6	0x6A	106
Partition 7	0x6B	107
Partition 8	0x6C	108
Partition 9	0x6D	109
Partition 10	0x6E	110
Partition 11	0x6F	111
Partition 12	0x70	112
Partition 13	0x71	113
Partition 14	0x72	114
Partition 15	0x73	115
Partition 16	0x74	116

PARTITION No.	Modbus Reg.no hex	Modbus Reg.no decimal
Partition 17	0x75	117
Partition 18	0x76	118
Partition 19	0x77	119
Partition 20	0x78	120
Partition 21	0x79	121
Partition 22	0x7A	122
Partition 23	0x7B	123
Partition 24	0x7C	124
Partition 25	0x7D	125
Partition 26	0x7E	126
Partition 27	0x7F	127
Partition 28	0x80	128
Partition 29	0x81	129
Partition 30	0x82	130
Partition 31	0x83	131
Partition 32	0x84	132

6.3 ZONES Open/Close State

Data Type	16 bit unsigned
Reading Type	Holding Register: (0x03)
Writing Types	READ ONLY
State Values	0 = Normal State, 1 = Open Zone

ZONE No.	Modbus Reg.no hex	Modbus Reg.no decimal
Zone 1	0x3E9	1001
Zone 2	0x3EA	1002
Zone 3	0x3EB	1003
Zone 4	0x3EC	1004
Zone 5	0x3ED	1005
Zone 6	0x3EE	1006
Zone 7	0x3EF	1007
Zone 8	0x3FA	1008
...	...	...
...	...	...
Zone 128	0x468	1128
...	...	...
...	...	...
Zone 256	0x4E8	1256
...	...	...
...	...	...
Zone 512	0x5E8	1512

6.4 ZONES Armed/Not Armed

Data Type	16 bit unsigned
Reading Type	Holding Register: (0x03)
Writing Types	READ ONLY
State Values	0 = Not Armed, 1 = Armed

ZONE No.	Modbus Reg.no hex	Modbus Reg.no decimal
Zone 1	0xBB9	3001
Zone 2	0xBBA	3002
Zone 3	0xBBB	3003
Zone 4	0xBBC	3004
Zone 5	0xBBD	3005
Zone 6	0xBBE	3006
Zone 7	0xBBF	3007
Zone 8	0xBC0	3008
...	...	...
...	...	...
Zone 128	0xC38	3128
...	...	...
...	...	...
Zone 256	0xCB8	3256
...	...	...
...	...	...
Zone 512	0xDB8	3512

6.5 ZONES Alarm/Memory State

Data Type	16 bit unsigned
Reading Type	Holding Register: (0x03)
Writing Types	READ ONLY
State Values	0 = NO Alarm, 1 = Alarm, 2 = Tamper

ZONE No.	Modbus Reg.no hex	Modbus Reg.no decimal
Zone 1	0x7D1	2001
Zone 2	0x7D2	2002
Zone 3	0x7D3	2003
Zone 4	0x7D4	2004
Zone 5	0x7D5	2005
Zone 6	0x7D6	2006
Zone 7	0x7D7	2007
Zone 8	0x7D8	2008
...	...	...
...	...	...
Zone 128	0x850	2128
...	...	...
...	...	...
Zone 256	0x8D0	2256
...	...	...
...	...	...
Zone 512	0x9D0	2512

6.6 ZONE Bypass State

Data Type	16 bit unsigned
Reading Type	Holding Register: (0x03)
Writing Types	Write Multiple Register (0x10)/ Write Single Register (0x6)
Allowed Values	0 = Normal Zone, 1 = Bypassed Zone (excluded)

ZONE No.	Modbus Reg.no hex	Modbus Reg.no decimal
Zone 1	0xFA1	4001
Zone 2	0xFA2	4002
Zone 3	0xFA3	4003
Zone 4	0xFA4	4004
Zone 5	0xFA5	4005
Zone 6	0xFA6	4006
Zone 7	0xFA7	4007
Zone 8	0xFA8	4008
...	...	...
...	...	...
Zone 128	0x1020	4128
...	...	...
...	...	...
Zone 256	0x10A0	4256
...	...	...
...	...	...
Zone 512	0x11A0	4512

6.7 RELAY/OPEN COLLECTOR Outputs

Data Type	16 bit unsigned
Reading Type	Holding Register: (0x03)
Writing Types	Write Multiple Register (0x10)/ Write Single Register (0x6)
Allowed Values	0 = Output Off, 1 = Output On

O.C. OUTPUT No.	Modbus Reg.no hex	Modbus Reg.no decimal
OC OUT 1	0x1389	5001
OC OUT 2	0x138A	5002
OC OUT 3	0x138B	5003
OC OUT 4	0x138C	5004
OC OUT 5	0x138D	5005
OC OUT 6	0x138E	5006
OC OUT 7	0x138F	5007
OC OUT 8	0x1390	5008
...	...	...
...	...	...
OC OUT 20	0x139C	5020
...	...	...
...	...	...
OC OUT 30	0x13A6	5030
...	...	...
...	...	...
OC OUT 40	0x13B0	5040

Note: The Outputs must be programmed in the panel for User Code operations to be triggered via MODBUS/KNX Gateway.

6.8 CONNECTION State (RISCO KNX/MODBUS MODULE <-> Main PANEL IP)

Data Type	16 bit unsigned
Reading Type	Holding Register: (0x03)
Writing Types	Write Multiple Register (0x10)/ Write Single Register (0x6)
Allowed Values	0 = NOT Connected, 1 = Connected and gateway running

Description	Modbus Reg.no hex	Modbus Reg.no decimal
Control Panel is online	0x0	0

Ordering Information

P/N	Description
RP512GKNX00A	KNX/Modbus Module

EMC Compliance Statement:

Hereby, RISCO Group declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU.

For the CE Declaration of Conformity please refer to our website: www.riscogroup.com



Standard Limited Product Warranty ("Limited Warranty")

RISCO Ltd. ("RISCO") guarantee RISCO's hardware products ("Products") to be free from defects in materials and workmanship when used and stored under normal conditions and in accordance with the instructions for use supplied by RISCO, for a period of (i) 24 months from the date of delivery of the Product (the "Warranty Period"). This Limited Warranty covers the Product only within the country where the Product was originally purchased and only covers Products purchased as new.

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Remedies. In the event that a material defect in a Product is discovered and reported to RISCO during the Warranty Period, RISCO shall accept return of the defective Product in accordance with the below RMA procedure and, at its option, either (i) repair or have repaired the defective Product, or (ii) provide a replacement product to the customer.

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Entire Liability. The repair or replacement of Products in accordance with this Limited Warranty shall be RISCO's entire liability and customer's sole and exclusive remedy in case a material defect in a Product is discovered and reported as required herein. RISCO's obligation and this Limited Warranty are contingent upon the full payment by customer for such Product and upon a proven weekly testing and examination of the Product functionality.

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WARNING: This product should be tested at least once a week.

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to local regulations.

Contacting RISCO Group

RISCO Group is committed to customer service and product support. You can contact us through our website (www.riscogroup.com) or at the following telephone and fax numbers:

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support-uk@riscogroup.com

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Tel: +39-02-66590054
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