SmartLink-(RM) • *Communication interface (Remote+ module)*

The SmartLink interface converts the CAN-communication protocol, that is used by the ORION / SIRIUS / CYGNUS computers, into more standard communication protocols such as RS232, USB or TCP / IP. You can connect a PC directly to the SmartLink by means of a USB / RS232 or Ethernet port. When you connect a modem to your SmartLink, it is possible to dial in to your computer from another location, making use of PC with modem. Next to it, you can include the SmartLink into a local network and, if applied, you can connect it to the Internet. By using the Hotraco management program Rainbow+, the SIRIUS, ORION and CYGNUS computers can be remote controlled from your home PC.

The SmartLink is provided with a display and a keyboard, with which you adjust the SmartLink. Also you can obtain the status of the communication. Next to it, the display shows whether aconnected computer has an alarm.

Connection options of SmartLink

The computers should be connected to the SmartLink by way of the CAN-Backbone. You can establish a maximum of 3 connections at the same time.

Hotraco Agri

Stationsstraat 142
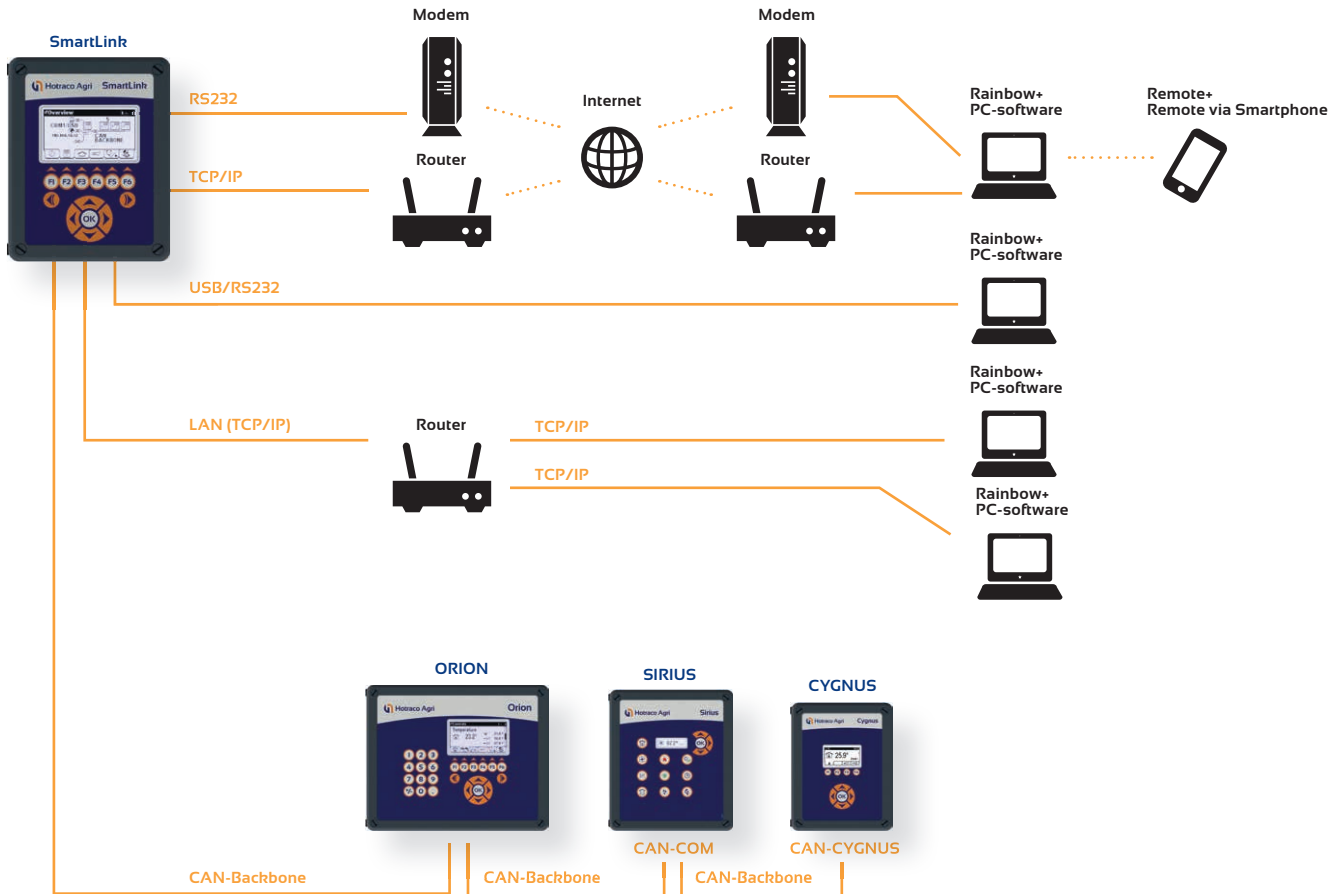5963 AC Hegelsom
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Hotraco Agri is a globally operating supplier of innovative computerized systems for use in the pig and poultry sectors specialised in creating and maintaining an optimum indoor climate. Hotraco Agri's main focus is on the development and manufacture of customized computers that regulate, control and monitor the overall animal house system. From climate control and air conditioning, feed and water control, animal weighing, egg counting to fire safety. Over 100 employees serve customers on all continents with innovative and technically advanced systems. The fact that Hotraco Agri has its own R&D and development department means that it is ALWAYS able to deliver customized products and develop problem-specific solutions.
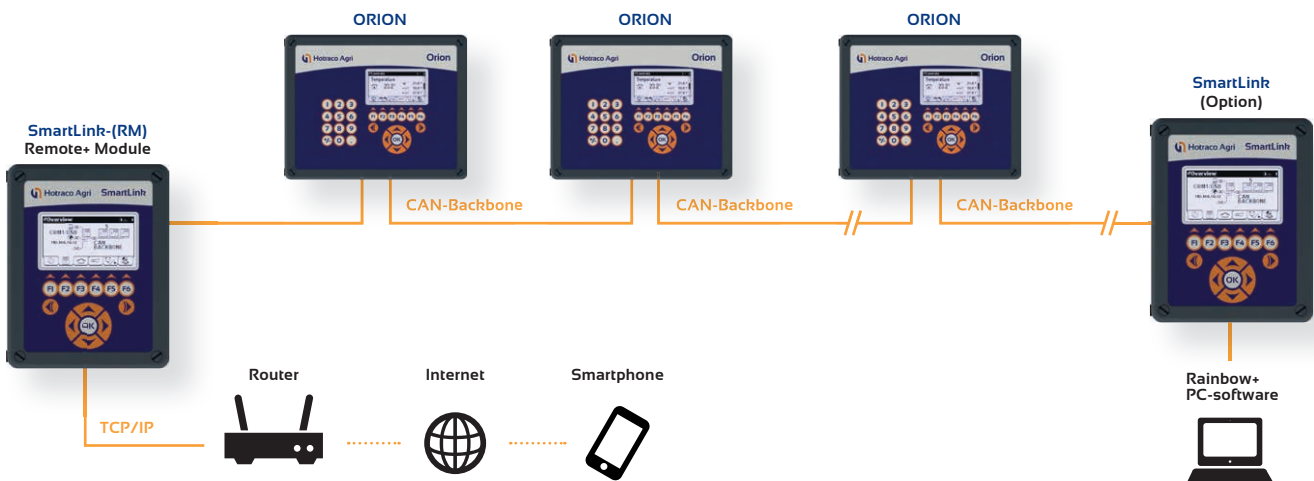
Helpdesk 24/7

Hotraco's helpdesk and service centre is available 24/7. Our team has the possibility to monitor and control our clients' systems, wherever in the world, via state of the art ICT technology.

Hotraco Agri
the system creators

CONNECTION OPTIONS OF SMARTLINK

SmartLink

Modem

Modem

RS232

Internet

TCP/IP

Router

Router

**Rainbow+
PC-software**

**Remote+
Remote via Smartphone**

USB/RS232

**Rainbow+
PC-software**

**Rainbow+
PC-software**

LAN (TCP/IP)

Router

TCP/IP

TCP/IP

**Rainbow+
PC-software**

**Rainbow+
PC-software**

ORION

SIRIUS

CYGNUS

CAN-COM

CAN-CYGNUS

CAN-Backbone

CAN-Backbone

CAN-Backbone

COMBINATION WITH SMARTLINK-(RM) AND ORION CLIMATECOMPUTERS

ORION

ORION

ORION

**SmartLink
(Option)**

**SmartLink-(RM)
Remote+ Module**

CAN-Backbone

CAN-Backbone

CAN-Backbone

Router

Internet

Smartphone

TCP/IP

**Rainbow+
PC-software**

Hotraco Agri
the system creators

Remote+ Module
Next to all the connection possibilities like RS232, USB and TCP/IP it is possible to access the SmartLink from the internet. To do this you need the optional Remote+ module. Via the internet you can operate the ORION, SIRIUS and/or CYGNUS computer by means of a smartphone or PC located at another location.

Principle
The SmartLink needs to be connected to the router in your local area network. After completing some steps related to your router, the SmartLink can be accessed from the internet.

Via PC
Any other PC equipped with web browser and Java connected to the internet can make a connection to the SmartLink. Type in the address from the SmartLink in the web browser and the connection to the SmartLink will be established.

Via Smartphone
The First time you make a connection with your smartphone to the SmartLink, you will be re-routed via an internal web server to an application which you can download for your type of telephone. When download is completed you can start up the application. Type in the SmartLink IP-address into your smartphone.

After the connection is established via PC or smartphone, the SmartLink automaticaly will initialize the connected Hotraco computers.

Only one computer can be displayed at any time, therefore it is possible to scroll through all the connected computers. The displayed screen will automaticaly adapt into the selected ORION, SIRIUS or CYGNUS computer.
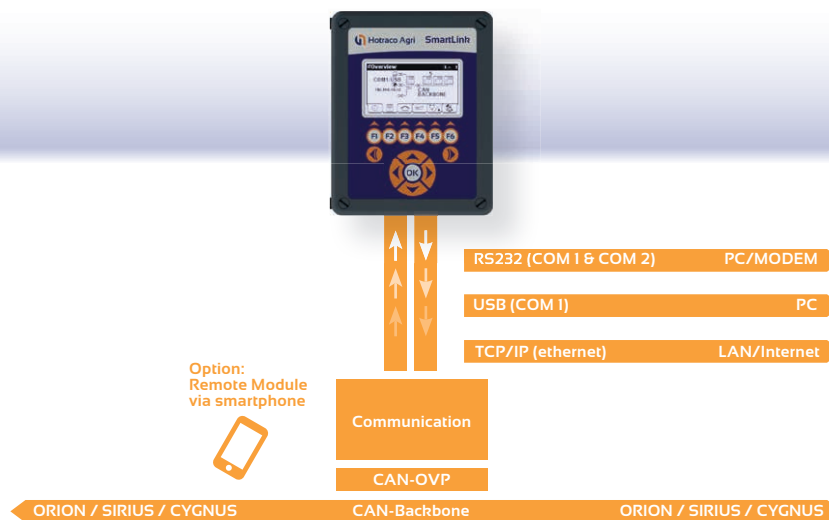
Smartphone system requirements in combination with SmartLink-(RM)

Platform:	Version:
Android	1.5 or higher
BlackBerry	4.3 or higher
Symbian	S60 3rd Edition FP1 or higher /
	Symbian^1 or higher

Free available memory 10-15 MB.

TECHNICAL SPECIFICATIONS

Electrical

Power supply	230 Vac ± 10 %, 50 / 60 Hz
Power consumption	max. 10 VA
Fuse	T 100 mA (dim. 15 x 20 mm)
Power supply 24 Vdc	max 200 mA

CAN communication

Protocol	CAN-Backbone
Needed cable	CAN-BK, twisted pair 2 x 0,64 mm^2 + screen
Maximum length	500 meter @ 100 kbs

RS-232 communication

Protocol	RS-232
Needed cable	MSK-9, female RS232 connector
Maximum length	15 meter @ 38400 baud

USB communication

Protocol	USB 2.0 (USB / RS232 converter)
Needed cable	USB A - Mini B
Maximum length	5 meter @ 115 kbs

TCP/IP communication

Protocol	TCP / IP
Needed cable	UTP cat 5e

EC-directions

EMC	2004 / 108 / EC
Low voltage	2006 / 95 / EC

Mechanical

Ambient temperature	0...40 °C
Dimensions (H x B x D)	243 x 192 x 117 mm
Encasing	IP 54 ABS synthetic
Weight	approx. 2 kg