



FlexiScan CONTROLLER

Product specification
CATALOGUE

The Impro FlexiScan 4-Channel Controller forms the backbone for a reliable, modular access control system for small commercial and residential applications.

The FlexiScan (with a Quad Receiver or a Scan Keypad Reader) has four separate outputs for electro-mechanical locks or to control inputs to other equipment (like alarms or automatic gates).

The FlexiScan (and its associated S-Bus peripheral devices) is your gateway into the multi-channel electronic access control market. With vehicle and personal access – as well as 4-digit PIN-code only access it is versatile enough to deliver secure access control for your office - or residence.

Users can easily build systems to suite their requirements by connecting any combination (up to a maximum of eight) from the growing list of compatible **S-Bus Devices*** designed to meet specific needs:

- Impro (QR) Quad Receiver (For use with Impro (QT) Quad Transmitters)
- Impro (SKR) Scan Keypad Reader (This allows PIN code entry and is also able to read passive SLIM / EMM tags as well as the passive tags built into the Quad Transmitters.)
- Impro (XSR) S-Bus Relay Box (This is useful when a relay is needed some distance from the FlexiScan, allowing the FlexiScan to control distant relays via S-Bus.)

*S-Bus Devices may be installed up to 150m away from the FlexiScan.





Key Features

- Cost effective
- Simple to install
- Easy to use
- Supports up to 4 access points (made up of up of any combination of RF / Tag / PAC / Tag + Pin
- 4 Relays
- Two 7-segment Display LEDs
- 4 Externally accessible programming Push-buttons
- Operates using a 12 V Power Supply.
- Supports a combination of up to 99 RF Tags, Passive Tags or PIN-codes
- Each RF Transmitter Push-button can be loaded separately
- Supports programmable Relay drive times of 1 to 99 seconds
- Each Relay can be set to Toggle Mode
- Supports the Impro (SKR) Scan Keypad Reader, Impro (QR) Quad Receiver, and the Impro (XSR) S-Bus Relay Box

FlexiScan Controller

HCM991-0-0-GB-XX

Physical Specifications

Length	:	144 mm (6 in)
Width	:	92 mm (4 in)
Height	:	33 mm (1.3 in) (excluding Standoffs) 44 mm (1.7 in) (including Standoffs)
Approximate Weight	:	177 g (6.25 oz)
Housing Material	:	Polycarbonate
Colour	:	Black, Translucent

Environmental Specifications

Operating Temperature	:	-25°C to +60°C (-13°F to +140°F)
Storage Temperature	:	-40°C to +80°C (-40°F to +176°F)
Humidity Range	:	0 to 95% relative humidity at +40°C (+104°F) non-condensing

Approvals

Compliance	:	CE
Dust & Splash Resistance	:	The FlexiScan is designed to work in an indoor or protected outdoor environment similar to IP20. The FlexiScan is, therefore, NOT sealed against water.
Drop Endurance	:	2 m (7 ft) drop (in packaging)

Related Information

- For extra information relating to this product refer to the:
- Hardware Installation Manual (SPK305-0-0-GB-XX).

Electrical Specifications

Power

Input Voltage	:	11 V DC to 15 V DC.	
Power Requirements	:	Current (mA)	Power (W)

Input Voltage 12 V DC, All Relays OFF	:	30	0.36
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Input Voltage 12 V DC, All Relays ON	:	167	2
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Power Input Protection	:	Reverse polarity protection
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Relays

Relay Output	:	4 x Relays, each with NO, CO and NC contacts
Contact Ratings	:	10 A at 28 V DC 5 A at 220 V AC

Peripheral Communications

Wired Network	:	S-Bus
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User Interfaces

Display

7-Segment Display	:	2 Displays, Red (externally visible)
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User Input

Push-buttons	:	4 Push-buttons (externally accessible)
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Ordering Information

Order the FlexiScan 4-Channel Controller using the following Part Number:

- HCM991-0-0-GB-XX: FlexiScan 4-Channel Controller

Warranty Details

CAUTION: We reserve the right to nullify the products warranty where you have not properly installed the Metal-oxide Varistors.

This product conforms to our Warranty details on www.impro.net

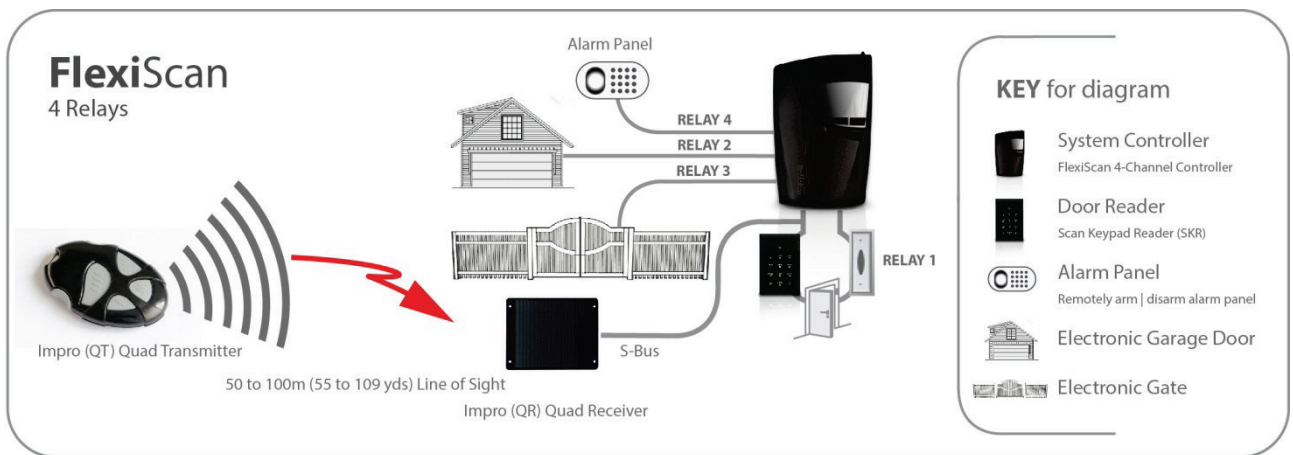


Figure 1: Impro FlexiScan Controller System Overview

This Product Specification Catalogue applies to the FlexiScan 4-Channel Controller, HCM991-0-0-GB-01
(The last two digits of the Impro stock code point to the issue status of the document or product).

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