SR Series coin acceptors

The SR Series represents a significant advance in coin discrimination to set a new standard for the best high-security, high-performance, versatile acceptor solution available anywhere in the world today.

Key Benefits

- **Highest level of performance is maintained with factory-quality field programming**
- **Reduced lead times, stockholding and costs with global design**
- **Easily configurable to suit most applications**
- **Truly global – accepts 95% of world's coin sets**
- **Future proof – designed for new coin technology**
- **Backward compatible with most coin acceptors**
- **Rapid response via remote programming option**
- **Reduced cost of ownership.**

Key Features

- **Coinless programming with secure factory-quality acceptor signature**
- **ccTalk serial interface and standard parallel interfaces**
- **True multi-coin acceptance – coins and tokens**
- **Teach and Run™ on all windows**
- **High-resolution series resonance coin discrimination**
- **Comprehensive diagnostics and alarm reporting.**

The **SR Series** is so named because of its use of 'series resonance' technology. The unique patented circuitry rapidly samples multiple sensors to obtain detailed readings from all areas of a coin. The array of small, precision inductive sensors is positioned to examine many different areas of a coin. Essential for handling bicolour coins, the precision sensors focus on very small areas to complete accurate measurements of the coin's core and outer ring, thus avoiding the metal joints. All sensors can be driven independently and in different modes to allow effective measurement of all types of coin alloy. The **SR Series** offers more coin readings at more frequencies over more areas, resulting in an extremely high level of coin discrimination.

Even more advances make this a range of truly versatile acceptors. By using precision reference coins and a neural network learning procedure, every SR acceptor is calibrated with a unique signature in the factory. This signature allows the coinless download of any new coin set, anywhere in the world, to achieve factory-quality settings in the field, thus maintaining reliable coin discrimination.

The **SR Series** acceptors can be configured to be backward compatible with most acceptors currently used in virtually all applications throughout the amusement, specialist vending and leisure industries. And, conversely, they are also future-proof by being fully compatible with the latest bicolour and multi-layer coin technology. Changes to coin sets, new coin introductions and security upgrades are accommodated through simple reconfiguration, either locally or, with the SR5i, by remote download for added convenience.

SR3 □ SR5 □ SR5i □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

SR3

The **SR3** is compatible with most 3.5" (89mm) acceptors currently used in virtually all applications. It can be programmed on site without the use of coins via a PC-based ccProgrammer, ccTeach or ccEuroTeach, to create factory-quality coin signatures. The Teach and Run™ function allows local reprogramming with coins or tokens, but performance is dependent on the coins used and is recommended only as a 'quick fix'. Up to **twelve** different coins ranging from 15mm to 32mm in diameter can be accepted, with an option to have a built-in totaliser.

Features

- Factory-quality coinless programming
- ccTalk serial and parallel interfaces
- True 12 coin acceptance
- Customisable bank configuration (CBC) – any permutation via ccTalk serial
- Two banks of 6 coin windows via parallel
- European industry standard body size 3.5" x 4.0" (89mm x 102mm)
- Teach and Run™ on all windows
- Multiple applications, including high-security
- Suite of programming tools (PC-based ccProgrammer, ccTeach or ccEuroTeach)
- Individual coin inhibit
- Diagnostics and alarm reporting.

Options

- 12-coin binary parallel or simple parallel interface
- MechTool™ for reconfiguration in situ
- Totaliser
- Choice of accept/reject paths via standard body, reverse body or front plate versions
- Range of front plates, rundowns and bezels (see Optional Accessories data sheet, OA001)
- Range of mounting options
- Sorter driver
- Range of Money Controls sorters available (see Sorters data sheet, OA004).

SR5

The **SR5** is compatible with most 5" (128mm) acceptors currently used in virtually all applications. It can be programmed on site without the use of coins via a PC-based ccProgrammer, ccTeach or ccEuroTeach, to create factory-quality coin signatures. The Teach and Run™ function allows local reprogramming with coins or tokens, but performance is dependent on the coin used and is recommended only as a 'quick fix'. Up to **sixteen** different coins ranging from 15mm to 32mm in diameter can be accepted.

Features

- Factory-quality coinless programming
- ccTalk serial and parallel interfaces
- True 16 coin acceptance
- Customisable bank configuration (CBC) – any permutation via ccTalk serial
- Two banks of eight coin windows via parallel
- 12 additional token windows (in lieu of 1 coin window) single token output
- European industry standard body size 5" (128mm)
- Teach and Run™ on all windows
- Multiple applications, including high-security
- Suite of programming tools (PC-based ccProgrammer, ccTeach or ccEuroTeach)
- Individual coin inhibit
- Diagnostics and alarm reporting.

Options

- 16-coin binary parallel or simple parallel interface
- MechTool™ for reconfiguration in situ
- Integral sorter with manifold (4-way) or active manifold (8-way)
- Top or front coin-entry
- Direct (front plate) or indirect reject paths
- Range of front plates, rundowns and bezels (see Optional Accessories data sheet, OA001)
- Range of mounting options.

SR5i

The **SR5i** offers a breakthrough in true coin acceptance and security. Thanks to its intelligent expert system, AccepTelligence™ the SR5i offers an exceptional level of first time acceptance and security levels resulting in exceptional fraud rejection. Furthermore the **SR5i** delivers full remote capability, allowing new coin specifications and other coin programming to be downloaded via a connected host while allowing diagnostics information to be transferred to the host for effective and secure machine management and control. The integration of an encrypted communication protocol further raises the integral product security to new levels.

Product	SR3	SR5	SR5i
3.5" body size	●		
5" body size		●	●
12 coin	●		
16 coin		●	●
Tokens	●	●	●
Teach and Run™	●	●	●
Parallel interface	●	●	●
ccTalk serial interface	●	●	●
Sorter options		●	●
On-site coinless programming	●	●	●
Remote download			●
Intelligent for exceptional first time acceptance			●
Optional accessories	●	●	●

Features

- **New sensor technology based on an expert system, offering the highest first time accept rate combined with rapid sensitivity to fraud attack**
- **Remote download capability**
- **Remote factory-quality coinless programming and diagnostics via host machine**
- **Encrypted communication protocol.**

ccTalk serial versus parallel

SR Series coin acceptors are equipped with the standard parallel interface, but also benefit from the inclusion of our ccTalk serial interface. This allows implementation of an open standard communication protocol that increases machine security, reduces harnessing costs, and offers more flexibility in the arrangement of coin banks into customised groups. These banks are user-selectable to effect a rapid response to a fraud problem.

Details of front plates, rundowns and bezels are featured in the Optional Accessories data sheet, OA001.

Coinless programming may be achieved in one of three ways:
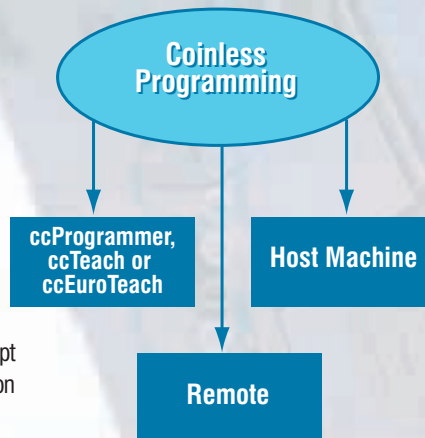
ccProgrammer, ccTeach or ccEuroTeach
This range of support tools allows the customer complete control of the functionality and programming of all **SR Series** acceptors. Data is downloaded directly at the machine or on the bench.

Remote
The **SR5i** acceptor supports remote programming to allow rapid reaction to fraud and to simplify the introduction of a new coin.

Host Machine
SR5i acceptors can be supplied 'blank' and be configured to accept a target currency by the host machine. This reduces stock variation and stockholding levels, and improves on product lead times.

Coinless Programming
- ccProgrammer, ccTeach or ccEuroTeach
- Host Machine
- Remote

Technical Data Summary

		SR3	SR5/SR5i (Top Entry)	SR5/SR5i (Front Entry)
Dimensions				
	Height	102mm (4.0")	175.5mm (6.9")	159mm (6.3")
	Width	89mm (3.5")	128mm (5.0")	128mm (5.0")
	Depth	52mm (2.0")	73mm (2.9")	73mm (2.9")
Coin Size				
	Diameter	15 – 32mm	15 – 32mm @ 2mm thickness	
			15 – 27mm @ 3.3mm thickness	
	Thickness range	1.25 – 3.3mm	1.25 – 3.3mm	
Environmental				
Temperature Range:	Operating	0°C to 55°C	0°C to 55°C	
	Storage	-20°C to 70°C	-20°C to 70°C	
Humidity Range:		Up to 75% RH non-condensing	Up to 75% RH non-condensing	
Electrical Interface				
Voltage:	Nominal	12V – 24Vdc	12V – 24Vdc	
	Minimum	10Vdc	10Vdc	
	Maximum	28Vdc	28Vdc	
Current:	Typical	70mA	70mA	
	Maximum	450mA	400mA	
	sorter	n/a	2.0A	
	sorter and active manifold	n/a	3.0A	
Communications Interface				
	SR3, SR5 and SR5i	Standard parallel and ccTalk serial (RS232-based)		
Orientation				
		The SR Series of acceptors must be positioned no more than 2 degrees from the vertical in any plane.		
Compatibility				
		Backward compatibility can be achieved for most acceptors via one of several modes, and is subject to application testing. Further details upon request.		
Optional Accessories				
		Refer to data sheet OA001		

For full technical details please refer to the appropriate Technical Manual.
E-mail: technical.uk@moneycontrols.com

For further information please contact your nearest Money Controls office either by telephone, e-mail or fax. Alternatively, you can visit our website where you will find a wide range of information on our company and products:

www.moneycontrols.com

SR3 ☐ SR5 ☐ SR5i ☐