## **User Manual**

ARCS-A/BT1 ARCS-B/BT1 ARCS-C/BT1 ARCS-D/BT1 ARCS-E/BT1 ARCS-F/BT1 ARCS-I/BT2 ARCS-J/BT2 ARCS-AQ/BT2 ARCS-AQ/BT1 ARCS-BQ/BT1



ARCS Blue Lecteurs évolutifs Notice d'installation **ARCS Blue** Lectores escalables Procedimiento de instalación conforme con NOM-024 -SCFI-2013

US

FR

ES

		references					
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	J9: Biometric o	connector	7	NC	NC	L-	
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Anti-tearing

Tearing is detected by an accelerometer. When the reader is wrenched, the switch output (connector J2) provides an O/C contact to indicate the tearing of reader.

for R/S 31/x1: the wrenching signal will be emitted on the "Data/Data1" line. This function is configurable via a configuration card. for R/S 33/x3 and OSDP<sup>TM</sup>: the reader will perform the operations configured with the configuration card. 

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. for W33/x3: the reader will perform the operations configured with the SSCP protocol.

Caution: switch on the reader when it is in its final position to initialize the accelerometer in the correct position.



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Relay

Read-only reader: automatic tamper management (except touch screen) or activated on the reading of a valid identifier Touch screen read-only reader: if the bell is activated, contact J2 is used to connect the external ring (max. 200 mA at 28 Vdc). Read/Write & OSDP<sup>™</sup> readers: the relay is controlled by the SSCP/OSDP<sup>™</sup> protocol commands.

#### UHF default configuration settings

Reader powered off. The defaults reader settings can be stored in internal memory accessible by UHF RFID technology. They will be taken into account when the reader is powered on.

#### **Read-only reader configuration**

- R and S readers are configurable with the SCB configuration card and OSDP<sup>™</sup> readers are configurable with OCB configuration card created with SECard:
  - If the SCB/OCB is compatible with the reader's firmware, the LED lights green and the buzzer beeps five times.
  - If the SCB/OCB is not compatible with the reader's firmware, the LED lights red and the buzzer is activated for 1 s.
  - If the SCB/OCB key is different from the reader's key: no reaction.

Caution: set your reader with your own company key.

#### Powering-up the readers

On power-up, the reader enters an initialization phase: 1. Activation of the white LED and buzzer for 100 ms.

For read-only & OSDP<sup>™</sup> readers:

- 2. Activation of the LED, according to the color code: Red = +10, Orange = +5, Green = +1, indicating the firmware version.
- 3. For serial R/S ARC only: the orange LED flashes 20 times: waiting for an update.
- 4. Activation of white fixed LED during Bluetooth<sup>®</sup> initialization.
- 5. Activation of the default LED (read-only: flashes blue, OSDP<sup>™</sup>: off; if no customer specific configuration).
- 6. ARC Screen: display of the default image and keypad activation by touching the screen.
- For the ARC screen with an activated keypad, the default mode is: display the picture on standby and activate the keyboard by pressing the screen.

#### Precautions for the biometric sensor and keypad

- For optimal operation, the biometric sensor must be free of all traces of water. Outdoors it is recommended to install the reader under cover. The keypad is sensitive. Take off your gloves to enter your code.
- Caution for Bluetooth<sup>®</sup> reader

Caution: at the reader Bluetooth® (BT1/BT2) powering, make sure that nothing is in an area of at least 10 cm / 3.94 in. around the reader (ex. No hand in front of the reader...).

#### Precautions for installation

- The supply voltage at the reader's connector should be between +7 Vdc and +28 Vdc.
- As far as possible, keep the reader away from computer or power source cables. They can generate electrical interference, depending on their radiation level
  and the proximity of the reader.
- Recommended distance between two readers: parallel plane: 15.8 in same plane: 15.8 in perpendicular plane: 11.8 in.
- Recommended distance between two readers with Blue activated: 2 meters either plan.
- Readers installed on a metal surface may have reduced performances.
- Use a ferrite (two-way) for the cable (power supply and data). Example: reference 74271222 WURTH ELEKTRONIK.
- For ARCS screw terminal output reader, connect the 2.2 µF capa (provided) between +12V and GND directly to the output of the connector (no polarization).
- By design, the reader can be installed indoors and outdoors.
- Disconnect/connect the wires or the connector of the reader before powering on.
- Operating temperature:

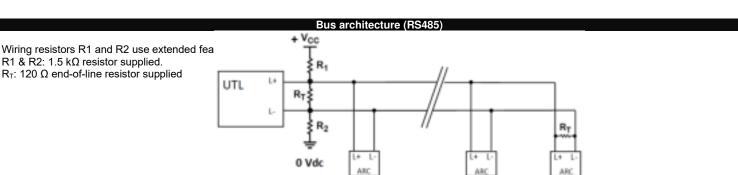
Temperature	-22 °F to 158 °F	-22 °F to 140 °F	-4 °F to 158 °F	-4 °F to 140 °F	14 °F to 122 °F
	-30°C to +70°C	-30°C to +60°C	-20°C to +70°C	-20°C to +60°C	-10°C to +50°C
Readers	A, B	AQ, BQ	C, I, J, K	CQ	D, E, F

#### TTL pull-ups

For data signals,  $10k\Omega$  pull-up resistors are connected internally to V<sub>in</sub> (power supply voltage) for optimal wiring distances. RS232 / RS485 communication

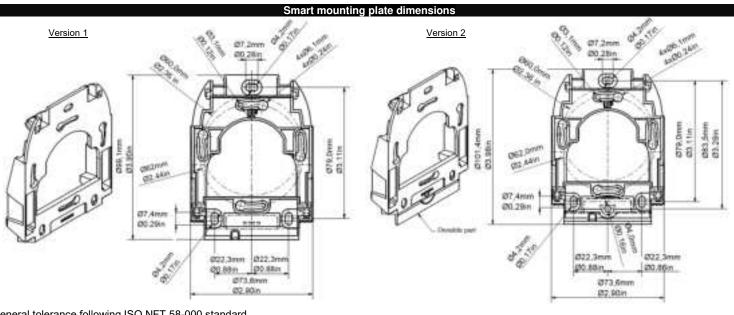
Available Baud rate	9600, 19200, 38400, 57600, 115200 bauds
Factory Baud rate	ARC R & S: 9600; ARC W: 38400 (SSCP), 9600 (OSDP <sup>™</sup> )
Mode	Asynchronous
Number of bits	8
Transfer mode	LSB first
Stop bit	1
RS485	Default broadcast address 00h

More details about reader communication are available in the protocol specification





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General tolerance following ISO NFT 58-000 standard



Scalability

Scalability is a specific feature of the Architect® Blue series. Each reader is composed of three parts: one switchable cover, one RFID core and one smart mounting plate. You can upgrade functionalities and security levels by switching the cover and/or adding a biometric module.

Dimensions

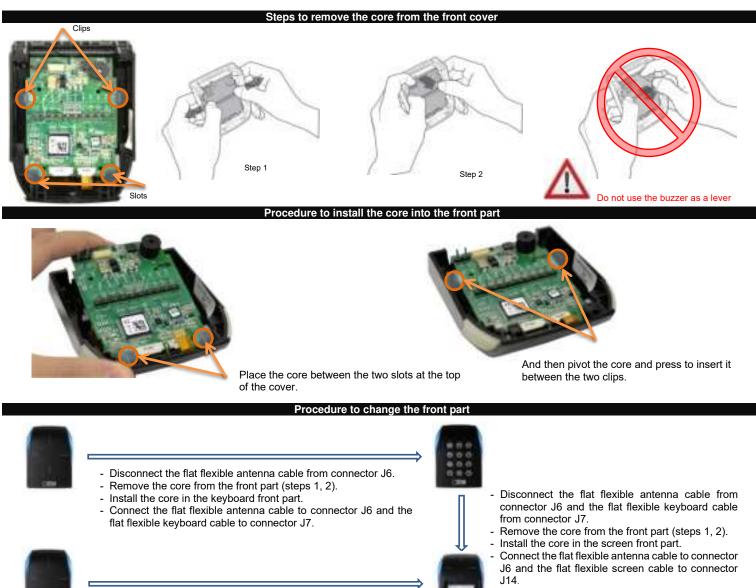
80.0 mm /4.17 3.14" 25.7 mm	80.0 mm 3.14" 59.6 mm 2.32"	B0.0 mm 3.14" 25.7 mm 0.98"	80.0 mm
106.6 mm / 4.17 88.0 mm 3.14" 25.7 mm 0.98"	80.0 mm 1.14" 2.32"	80.0 mm 3.14"	3.14" 1.42" 14.5 mm / 6.14" 80.0 mm 3.14" 1.42"
80.0 mm 3.14" 30.5 mm	80.0 mm 3.14"	B0.0 mm 3.14" 30.5 mm	80.0 mm 3.14"

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- Disconnect the flat flexible antenna cable of connector J6.
- Remove the core from the front part (steps 1, 2).
- Install the core in the screen front part.
- Connect the flat flexible antenna cable to connector J6 and the screen ribbon to connector J14.

#### Mounting



- Pass the cables through the hole in the base.
- Screw the base in its final location.
- Connect the reader.
- Test the readings and communication.
- Place the reader on the base (clip the top part and then pivot it down).
- Lock the reader with the two screws provided using the specific tool.



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#### Procedure to add the biometric (SE6) or 125 kHz module (SE8 ) or QR Code module (SE9)

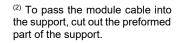
STid guarantees the good working order, compliance, technical support and after-sales service of the readers and modules (SE6, SE8 and SE9) that are installed as explained below, without any internal or external modifications.

- Check that the cable length that comes out of the module does not exceed 0.39 in. If it does, push the excess cable into the module housing.
- Connect the cable of the module to connector J9. You should not have a loop<sup>(1)</sup>.
- Insert the module into the reader slot (until you hear a "click" for SE6) Cut the base as shown in the drawing  $^{\rm (2)}$

cable

SE8 compatible with: HID Prox / EM4x02 / EM4x50 / Nedap.

- Place the "reader + module" on the base (i.e. Mounting), use the 2 screws provided with the module<sup>(3)</sup>.
- Read only readers: Activate the module with configuration card (SCB or OCB).





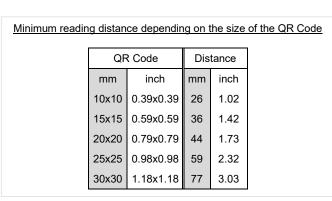
Standard/keyboard reader + module SE6v2: Réf. SE7-ARC-DE-02. Touch screen reader + module SE6v2: Réf. SE7-ARC-F-02.

Standard/keyboard reader + module SE9: Ref. TOLE-ARC-AQ-BQ-01. Touch screen reader + module SE9: Ref. TOLE-ARC-CQ-01.



SE8

SE9



#### Code format read:

- QR Code
- Aztec
- Data Matrix
- Code 128

### Slot for the passage of the module



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US

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ES

STid declares that the ARCS-X reader is compliant with the essential requirements of the Directives RED 2014/53/EU and RoHs 2011/65/EU. A copy of our declaration is available on request from gualite@stid.com.



This device complies with Part 15 of the FCC rules and with ISED's license–exempt RSSs. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and

2) This device must accept any interference received, including interference that may cause undesired operation.

Note: the manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

This device complies with the safety requirements for RF exposure in accordance with RSS-102 issue 5 for conditions of use and with §1.1307(b), 2.1091 and 2.1093 of the FCC rules Title 47 CFR Ch. I.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licenceexempt RSS(s). Operation is subject to the following two conditions:

1) This device may not cause interference.

2) This device must accept any interference, including interference that may cause undesired operation of the device.

#### This device complies with the safety requirements for RF exposure in accordance with RSS-102 issue 5 for potable use conditions. "DEEE Pro" Member



In response to the regulation, STid finances the Récylum recycling program dedicated to DEEE Pro. Electrical lighting equipment, control and monitoring devices, and used medical devices are recycled free of charge. More information at <u>www.recylum.com</u>.

# User Manual

ARCS-G/BT1



13.56 MHz Desktop Reader Installation instructions 13,56 MHz Lecteur de table Notice d'installation

13.56 MHz Lector de mesa Procedimiento de instalación conforme con *NOM-024 -SCFI-2013* 



Product references

ARCS-G/BT1	
<u>Communication</u> : <u>Cable output</u> :	Characteristics USB USB 2.0 cable – Length 1.50m – Connector type A - chip FTDI
If the reader is shipp	Driver installation Ded outside of the STid Software Kit:
<ul> <li>Please, click</li> <li>Download th</li> <li>Connect the</li> <li>Waiting few</li> <li>Launch the i</li> </ul>	c on this url: <u>http://www.ftdichip.com/FTDrivers.htm</u> ne VCP driver according your operating system. reader to the computer with the USB wire furnished. seconds that the PC recognizes the USB port. installation. Buzzer / LED
The operating mode reader (W3x).	for the Buzzer and LED 1 and 2 can be programmed by a configuration card (R3x & S3x) or controlled by the communication protocol of the
<ul><li>If the S</li><li>If the S</li></ul>	Read-only reader configuration configurable with the SCB configuration card or virtual configuration card created with SECard. SCB is compatible with the reader's firmware, the LED lights green and the buzzer beeps five times. SCB is not compatible with the reader's firmware, the LED lights red and the buzzer is activated for 1 s. eader with your own company key.
	Powering-up the readers ader enters an initialization phase: ne white LED and buzzer for 100 ms.
9. For serial R/S 10. For ARCS Blue	rs: ne LED, according to the color code: Red = +10, Orange = +5, Green = +1, indicating the firmware version. reader only: the orange LED flashes 20 times: waiting for an update. e only: Activating white fixed LED during Bluetooth initialization. ne default LED (flashes blue if no customer specific configuration).
	Default parameters configuration
Reader power off, th when reader is power	e default reader settings can be stored in internal memory accessible by UHF RFID technology. They will be taken into account er on.
Caution: at the reachand in front of the	,
More details about re	Communication eader communication are available in SECard User Manual for read only readers or in the protocol specification SSCP for read/write readers.
	Precautions for installation
<ul><li>and the proximity of</li><li>Recommended dis</li><li>Readers installed of</li></ul>	, keep the reader away from computer or power source cables. They can generate electrical interference, depending on their radiation level of the reader. stance between two readers: parallel plane: 15.8 in; same plane: 15.8 in; perpendicular plane: 11.8 in// two Blue readers: 6.56 ft either plan. on a metal surface may have reduced performances. ature: -4 °F to 158 °F / -20°C to +70°C.
	Dimensions 1.09 in 3.15 in
General tolerance fo	ollowing ISO NFT 58-000 standard.
	Declaration of compliance the ARC-X reader is compliant to the essential requirements of the Directives RED 2014/53/EU and Rohs 2011/65/EU. A copy of our declaration the set from <u>qualite@stid.com</u> .

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This device complies with Part 15 of the FCC rules and with ISED's license–exempt RSSs. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and

2) This device must accept any interference received, including interference that may cause undesired operation.

Note: the manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

This device complies with the safety requirements for RF exposure in accordance with RSS-102 issue 5 for conditions of use and with §1.1307(b), 2.1091 and 2.1093 of the FCC rules Title 47 CFR Ch. I.