JBC

www.jbctools.com

INSTRUCTION MANUAL

SMR

Multiplexer for Robot

This manual corresponds to the following references:

SMR-A

Packing List

The following items are included:

Multiplexer for Robot .... 1 unit

Cable DB9M-DB9F *(2m)* .... 1 unit
Ref. 0028514

Cabel M8F-M8M 5V *(3m)* .... 2 unit
Ref. 0021333

EU   US

AC Adapter .... 1 unit
Ref. 0028084

Manual .... 1 unit
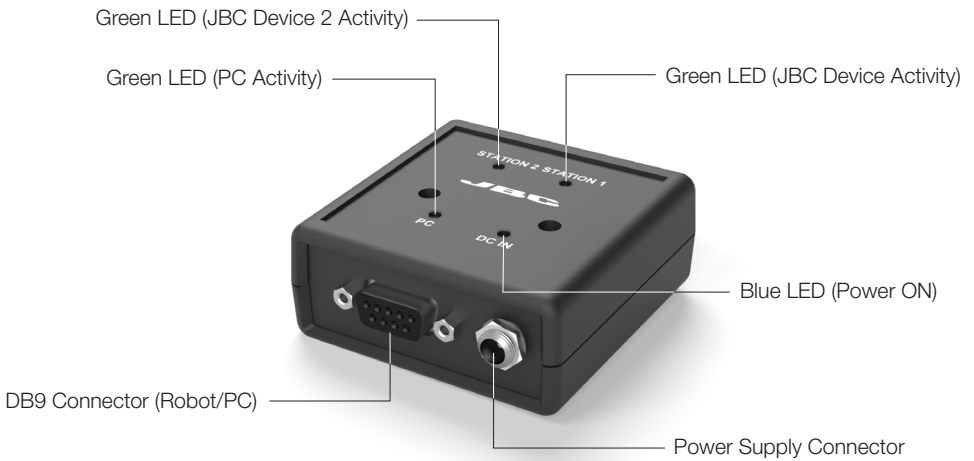Ref. 0023789

Download the **Robot Control Software, available at*
www.jbctools.com/jbcsoftware.html

Features

SMR simplifies the connection between the PC or PLC and the JBC stations by multiplexing one serial communication port towards two JBC Devices.

- **UCR** - Control Unit for Automation (serial communication RS-232*)
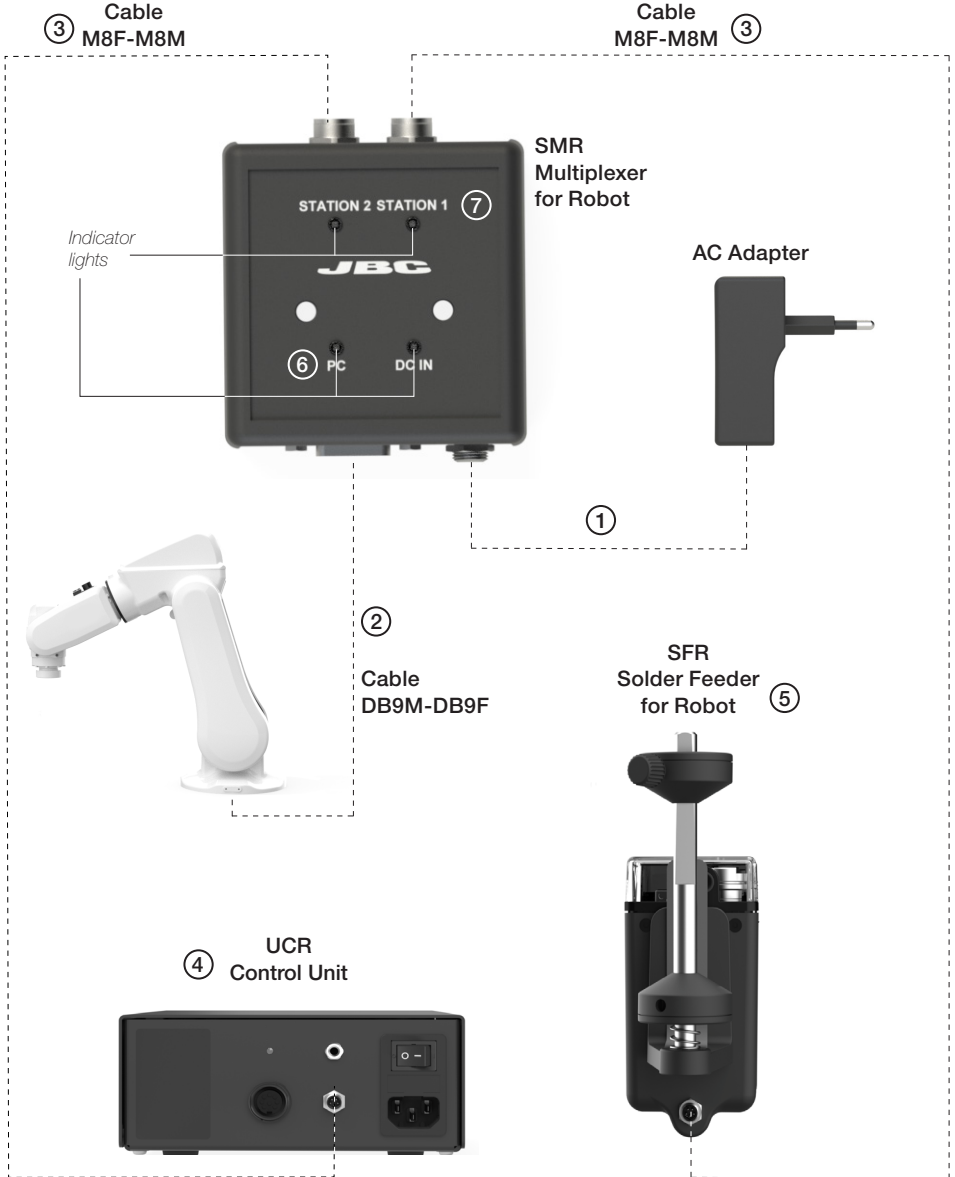- **SFR** - Solder Feeder for Robot (serial communication RS-232*)

*See corresponding "Communication Protocol" at www.jbctools.com/jbcsoftware.html.

Green LED (JBC Device 2 Activity)

Green LED (PC Activity)

Green LED (JBC Device Activity)

Blue LED (Power ON)

DB9 Connector (Robot/PC)

Power Supply Connector

Communication Connectors

Connection

Connection module for automation process
Ref. SMR-A

③ Cable
M8F-M8M

Cable ③
M8F-M8M

STATION 2 STATION 1 ⑦

SMR
Multiplexer
for Robot

*Indicator
lights*

JBC

AC Adapter

⑥ PC   DC IN

①

②

Cable
DB9M-DB9F

SFR
Solder Feeder
for Robot ⑤

④ UCR
Control Unit

Installation

Connect the SMR with the supplied AC adapter (1). The DC IN indicator must become lighted

Connect the PC/PLC serial port DB9 male connector to the SMR by using the DB9 cable (2).

Connect two JBC Devices to the SMR by using the M8F-M8M 5V 3M cables (3). Typical devices are the UCR Control Unit (4) and de SFR Solder Feeder for Robot (5).

Ensure that both device protocol settings are configured as "WITH ADDRESS" and the address of each device is different. Default address values is 01 for the UCR and 10 for the SFR.

LED Indicators

The indicator lights STATION 1, STATION 2, and PC are very useful for debugging communications:

PC Indicator Light

PC indicator (6) blinks every time the PC sends bytes to the stations. If this led doesn't blink, the port number assigned to the communication software is incorrect.

Station Indicator Light

STATION1 and STATION2 lights (7) blink when the JBC devices answers a frame to the PC. If these lights don't blink, check if the address settings are properly defined.

If the device adress is unknown, JBC recommends to download the *Robot Control Software** and use the "Discovery Connected Devise" funktion.

*available at www.jbctools.com/jbcsoftware.html

Maintenance

- Before carrying out maintenance, always allow the equipment to cool down.

- Periodically check all cables and connections.

- Replace any defective or damaged part. Use original JBC spare parts only.

- Repairs should only be performed by JBC and authorized technical service.

Safety

> ⚠ **It is imperative to follow safety guidelines to prevent electric shock, injury, fire or explosion.**

- Do not use the device for other purpose.

- The AC Adapter must be plugged into approved bases. When unplugging it, hold the plug, not the wire.

- Be sure that the power supply is disconnected before changing any spare part.

- Keep your workplace clean and tidy. Wear appropriate protection glasses and gloves when working to avoid personal injury.

Notes

Specifications

SMR
Multiplexer for Robot
Ref. **SMR-A**

- Total Net Weight:	505 g / 1.11 lb
- Package Dimensions/Weight:	246 x 184 x 42 mm / 567 g
(L x W x H)	9.69 x 7.24 x 1.65 in / 1.25 lb

Complies with CE standards.
ESD safe.

JBC

Warranty
JBC's 2 year warranty covers this equipment against all manufacturing defects, including the replacement of defective parts and labour.
Warranty does not cover product wear or misuse.
In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased.

This product should not be thrown in the garbage.
In accordance with the European directive 2012/19/EU, electronic equipment at the end of its life must be collected and returned to an authorized recycling facility.

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