

# Installation and operating instructions

## S-Box



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Version: V1.20180627



30322616-02-EN

Read and follow these operating instructions.

Keep these operating instructions in a safe place for later reference.

## Company details

<b>Document</b>	Installation and operating instructions Product: S-Box Document number: 30322616-02-EN Original language: German
<b>Copyright ©</b>	Müller-Elektronik GmbH & Co.KG Franz-Kleine-Straße 18 33154 Salzkotten Germany Phone: ++49 (0) 5258 / 9834 - 0 Fax: ++49 (0) 5258 / 9834 - 90 Email: <a href="mailto:info@mueller-elektronik.de">info@mueller-elektronik.de</a> Homepage: <a href="http://www.mueller-elektronik.de">http://www.mueller-elektronik.de</a>

## Table of contents

<b>1</b>	<b>Product description</b>	<b>4</b>
1.1	System requirements	4
1.2	Controls	4
<b>2</b>	<b>Mounting and cabling</b>	<b>6</b>
2.1	S-Box with Sub-D connector with joystick	6
2.2	S-Box with Sub-D connector without joystick	6
2.3	S-Box with CPC connector	6
<b>3</b>	<b>Technical specifications</b>	<b>7</b>
3.1	Technical data for the S-Box	7
3.2	Connector pin assignment	7
3.2.1	9-pin Sub-D connector	7
3.2.2	9-pin CPC connector	7
<b>4</b>	<b>Item overview</b>	<b>8</b>
<b>5</b>	<b>Disposal</b>	<b>9</b>

# 1 Product description

The S-Box is a section switching box with mechanical switches for the control of sections and the main switch of an ISOBUS sprayer.

The S-Box can be also operated in addition to the ISOBUS joystick or separately for the control of sprayer sections.

Versions exist for 5, 6, 7, 8, 9, 10, 8, 9, 11, 12, 13, and 18 sections.

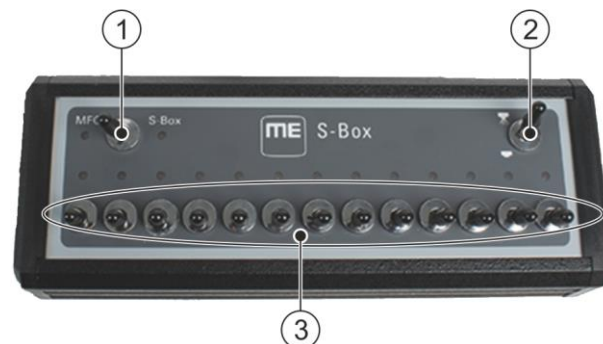
## 1.1 System requirements

Depending on the number of sections that you operate with the S-Box, a specific software version must be installed on your ISOBUS job computer.

Sections	SPRAYER-Controller MIDI and MAXI 2.0	SPRAYER-Controller MIDI and MAXI 3.0
5-13	5.2xx	7.0
18	6.4i	7.0

## 1.2 Controls

### Controls



①	Function switch
②	Section main switch
③	Section switches

### Standard functions of the switches

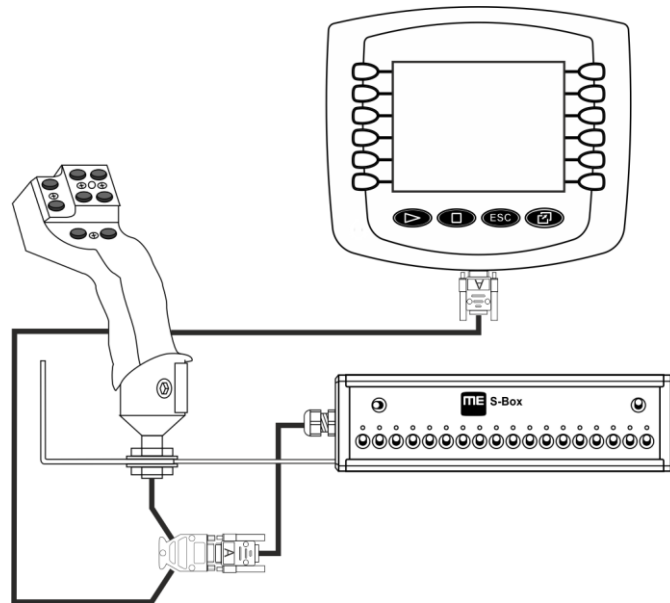
Switch	Position	Meaning
Function switch	MFG	The S-Box has no function. The sections can be operated via the joystick depending on the selected mode.
	S-Box	The S-Box is active. The S-Box symbol is visible on the work screen of the sprayer. The job computer evaluates the current switch positions of the section main switch and the section switches.
Section main switch	Activated	All sections activated via the section switches are in the active state.
	Deactivated	All sections activated via the section switches are in the preselected state.
Section switches	Activated	The selected section is active or preselected depending on the position of the section main switch.
	Deactivated	The selected section is not active.

## 2 Mounting and cabling

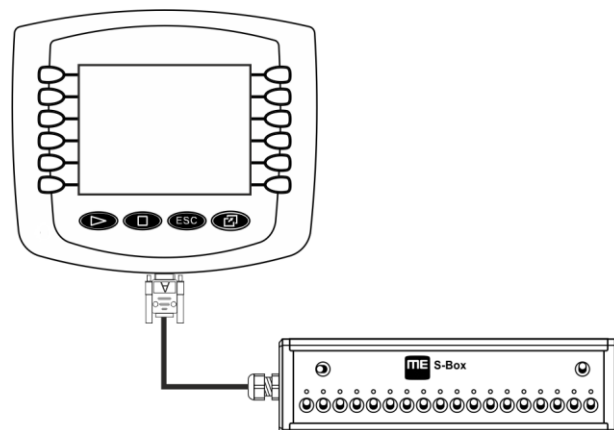
There are three different ways you can install the S-Box:

- Connect the S-Box to a joystick connected to the terminal via a Sub-D connector.
- Connect the S-Box to a terminal via a Sub-D connector.
- Connect the S-Box to the ISOBUS In-Cab-Connector via a CPC connector.

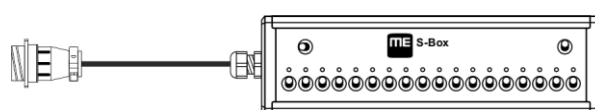
### 2.1 S-Box with Sub-D connector with joystick



### 2.2 S-Box with Sub-D connector without joystick



### 2.3 S-Box with CPC connector



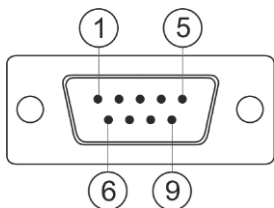
## 3 Technical specifications

### 3.1 Technical data for the S-Box

Parameter	Value
Power supply	10.5 V - 16 V
Current consumption	Max. 0.7 A
Temperature	-20 °C – +70 °C
Housing	Aluminium continuous casting with plastic end caps
Protection rating	IP42

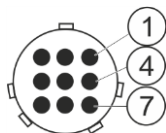
### 3.2 Connector pin assignment

#### 3.2.1 9-pin Sub-D connector



Pin	Signal	Pin	Signal
1	CAN_L_Out	6	0 VE
2	CAN_L_In	7	CAN_H_In
3	CAN_0 V	8	CAN_EN_Out
4	CAN_H_Out	9	12 VE
5	CAN_EN_In		

#### 3.2.2 9-pin CPC connector



Pin	Signal	Pin	Signal
1		6	CAN_E
2	CAN_L_In	7	12 VE
3	CAN_L_Out	8	CAN_0 V
4	CAN_H_In	9	0 VE
5	CAN_H_Out		

## 4 Item overview

Item number	Designation
30322600	S-Box, 5 sections, with 9-pin Sub-D connector
30322602	S-Box, 6 sections, with 9-pin Sub-D connector
30322604	S-Box, 7 sections, with 9-pin Sub-D connector
30322606	S-Box, 8 sections, with 9-pin Sub-D connector
30322608	S-Box, 9 sections, with 9-pin Sub-D connector
30322610	S-Box, 10 sections, with 9-pin Sub-D connector
30322612	S-Box, 11 sections, with 9-pin Sub-D connector
30322614	S-Box, 12 sections, with 9-pin Sub-D connector
30322616	S-Box, 13 sections, with 9-pin Sub-D connector
30322618	S-Box, 18 sections, with 9-pin Sub-D connector
30322634	S-Box, 7 sections, with 9-pin CPC connector for third-party terminals
30322638	S-Box, 9 sections, with 9-pin CPC connector for third-party terminals
30322640	S-Box, 10 sections, with 9-pin CPC connector for third-party terminals
30322642	S-Box, 11 sections, with 9-pin CPC connector for third-party terminals
30322644	S-Box, 12 sections, with 9-pin CPC connector for third-party terminals
30322646	S-Box, 13 sections, with 9-pin CPC connector for third-party terminals



## 5 Disposal



When it has reached the end of its service life, please dispose of this product as electronic scrap in accordance with all applicable waste management laws.