

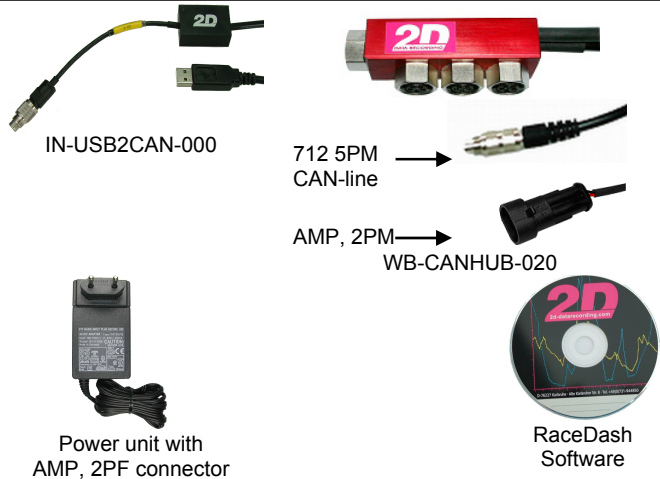
## SY-2DProgKitUSB09-000

## Programming Kit USB to CAN

### Features

- USB bus powered module
- Selections of configuration data from CAN modules (=reading)
- Program new configuration data into CAN modules (=writing)
- Display of current measured values of the CAN modules in **2D** software WinIt
- Firmware update

### The programming Kit USB09 consists of



### Technical specifications

#### Electrical characteristics (IN-USB2CAN09-000)

USB bus powered module.....	Yes
Power supply for several CAN modules.....	Yes

#### Connections

Communication (USB typeA, standard)...	1
CAN-line (Binder, 712 8PM).....	1
Power Supply (AMP Super Seal, 2PM)...	1

#### Scope of supply

IN-USB2CAN09-000.....	1
WB-CANHUB-020.....	1
Power unit (with AMP, 2PM connector)...	1
RaceDash Software (SW-RaceDash-000)...	1

#### Mechanical characteristics (IN-USB2CAN09-000)

Dimensions.....	40 x 25 x 14 mm <sup>3</sup>
Weight (including cable).....	100 g
Housing material.....	plastic
<b>Cable</b>	
CAN	
type.....	Raychem DR25-1/8"
wire cross section..	4 x AWG26
length.....	150 mm
<b>USB</b>	
wire cross section	4 x AWG24
length	1000 mm

#### Vibration resistance

Shock.....	40 G
.....	10 ms
Vibration tested at.....	12 G
.....	1000 Hz

#### Environmental data

Ambient operating range.....	0 to +75 °C
Humidity.....	0..95 %
Sealing class.....	IP 67

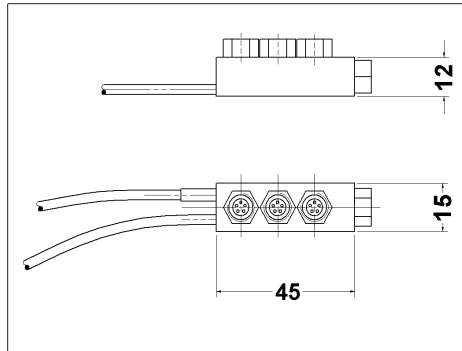
#### Ordering information

Art.No.:.....SY-2DProgKitUSB09-000

## SY-2DProgKitUSB09-000

## Programming Kit USB to CAN

### Dimensions



WB-CANHUB-020

### Connector layout

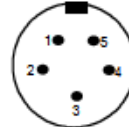
### Connector type

#### CAN-line (5 PM, Standard)

CAN-Line  
Binder 712, 5 Pin

Pin	Name	Description	Color(standard)
1	CAN H	CAN Bus High	White
2	CAN L	CAN Bus Low	Green
3	GND	Ground	Black
4	n.c.	Not connected	-
5	Vext	Power IN (8-18V)	red

#### Plug at module



Binder 712, 5PM  
(front side)

#### Mating plug

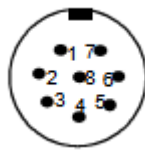


Binder 712, 5PF  
(front side)

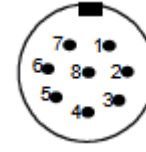
#### CAN-Line (Display connector)

CAN-Line  
Binder 712, 8 Pin

Pin	Name	Description	Color(standard)
1	n.c.	Not connected	-
2	GND	Ground	Black
3	n.c.	Not connected	-
4	Vext	Power IN (8-18V)	red
5	CAN H	CAN Bus High	White
6	CAN L	CAN Bus Low	green
7	n.c.	Not connected	-
8	n.c.	Not connected	-



Binder 712, 8PM  
(front side)



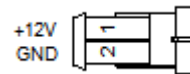
Binder 712, 8PF  
(front side)

**CAN-line terminated with 120Ω**

#### Power-line

Power-line  
AMP, 2 Pin

Pin	Name	Description	Color(standard)
1	Vext	Power IN (8-18V)	red
2	GND	Ground	Black



AMP  
Super Seal, 2 PM



AMP  
Super Seal, 2 PF