CanCom

83-80310

DJ803 Prod.ver. 014 CE

JÖRGENSEN

(Customized overlay)

Specifikation	Specification		
Matningsspänning	Power supply	9-36	VDC
Drivspänning	Operating voltage	2 rechargable AA batteries	
Strömförbrukning	Power consumption	< 150	mA
CAN protokoll	CAN protocol	2.0B	150Kbit
CAN drivkrets	CAN driver	PCA82C251	Philips
CPU	CPU	MC9S08DZ60	Freescale
Kapsling	Housing	Black	Plastic
IP-klass	IP-class	IP41	IP65 (optional)
Vikt	Mass	0,3	Kg
Omgivningstemp.	Operating temp.	-20 - +50	Celcius
Lagringstemp.	Storage temp.	-20 - +50	Celcius
Lagringstemp. Batt	Storage temp. Batt	-20 - +35	Celcius *
Laddningstemp	Charging temp	0 - +45	Celcius *
Mått	Dimensions	188x73x42	mm
* Batteries are model GP270AAHC			

Radio	Radio		
Räckvidd	Range	100-300	meter
Radiotyp	Radio type	Hi power (FM transmitter)	
Uteffekt radio	Radio power output	25 *	mW
Effective Radiated Power (ERP)		max +10dBm	(10mW)
Frekvens	Frequency	433,92	MHz
Radiokod	Radio code	Programmable	

Gränssnitt	Interface		
1 x CAN-buss	1 x CAN-bus	2.0 B	CanCom
10 x knappar	10 x buttons	digital	Membrane type
1 x joystick**	1 x joystick	XY	
Antenn	Antenna	inbyggd	built-in
LED	LED	2	green+red
Stoppfunktion	Stop function		
** optional 2 x potentiometers			

EMC	
EN 301 489-3	
ETSI EN 300 220-3 (for ERP @ 10mW)	
EN 61000-4-6	0,15-80Mhz 3V/m 80%aM 300Hz
EN 61000-4-3	80-1000Mhz 3V/m 80%aM 300Hz
EN 61000-4-4	1KV Capacitive injection
EN 61000-4-2	8KV air, 4KV contact

From version 009 the radio transmitter has a programmable timeout function!
The transmitter will go into power saving mode after set time if no activity occurs.
Read more about this below.

Starting the radio transmitter:

The radio transmitter has a boot block, to check that the joystick is not actuated in any direction or any button is pressed. This is indicated by that red and green LED is flashing. When starting the transmitter the joystick has to be centred, ie it must have the centre value 127 with a tolerance of +/- 10 bits. If the radio transmitter do not start, you can try to manually centre the joystick and try again.

From version 003: The radio transmitter does not start until button 1 and 2 is pressed simultaneously and then released.

Radio code, article no and S/N are placed under the batteries.

LED indications and warnings:

Red LED:

- 0,1s on, 1,9s off: Batteries need charging
- 0,1s on, 0,1s off: Battery level is critically low!
- Steady light: Charging. When battery is full charging terminates and the LED goes out

Green LED:

- 0,9s on, 0,1s off: CAN is active, radio off
- 0,1s on, 1,9s off:Radio is active, CAN off

Both red and green LED simultaneously:

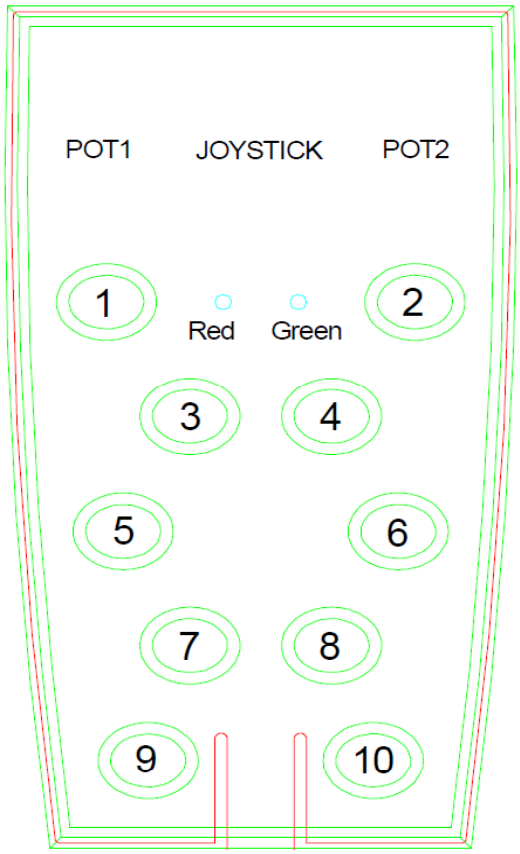
- 0,5s on, 0,5s off:Analog input values out of limits

Steady light: The transmitter is waiting for the start commando (from version 003).

Button numbering in rubber keyboard.

Radio / CAN ID 20, I/O-ports:
1. Button 1
2. Button 2
3. Button 3
4. Button 4
5. Button 5
6. Button 6
7. Button 7
8. Button 8

Radio ID 21, I/O-ports:
1. Button 9
2. Button 10
3. Joystick X / Pot 1 value (0 if not used)
4. Joystick Y /Pot 2 value (0 if not used)
5. Free
6. Free
7. Battery voltage
8. Free



Programming - ID, Radio code, type of transmitter and timeout

The radio transmitter is programmed through CanPro v4.28 or later, to the flash memory. The procedure is as follows:

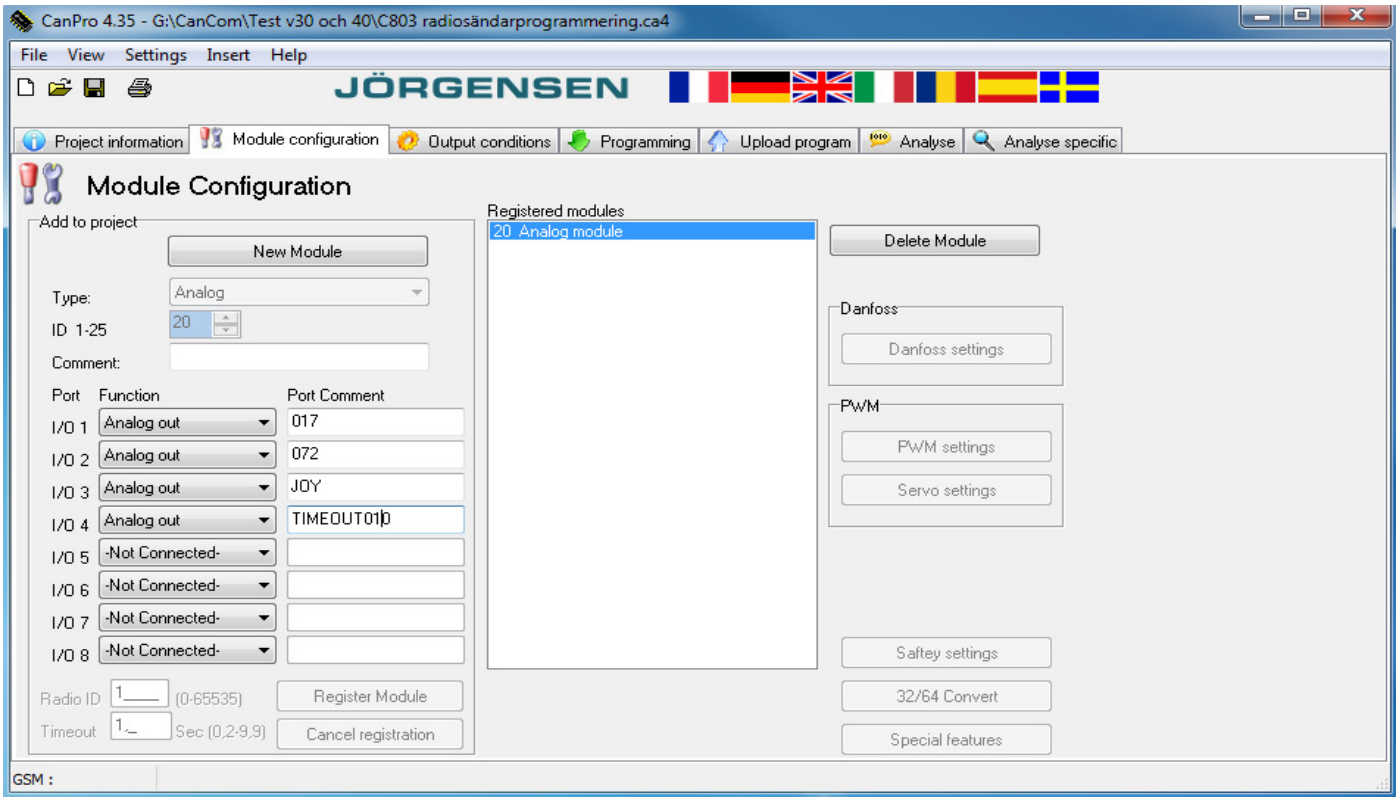
· Create an analogue module with for example ID 20 (or other)
· Set port 1 until port 4 as analogue out
· In the port comments the following should be written:

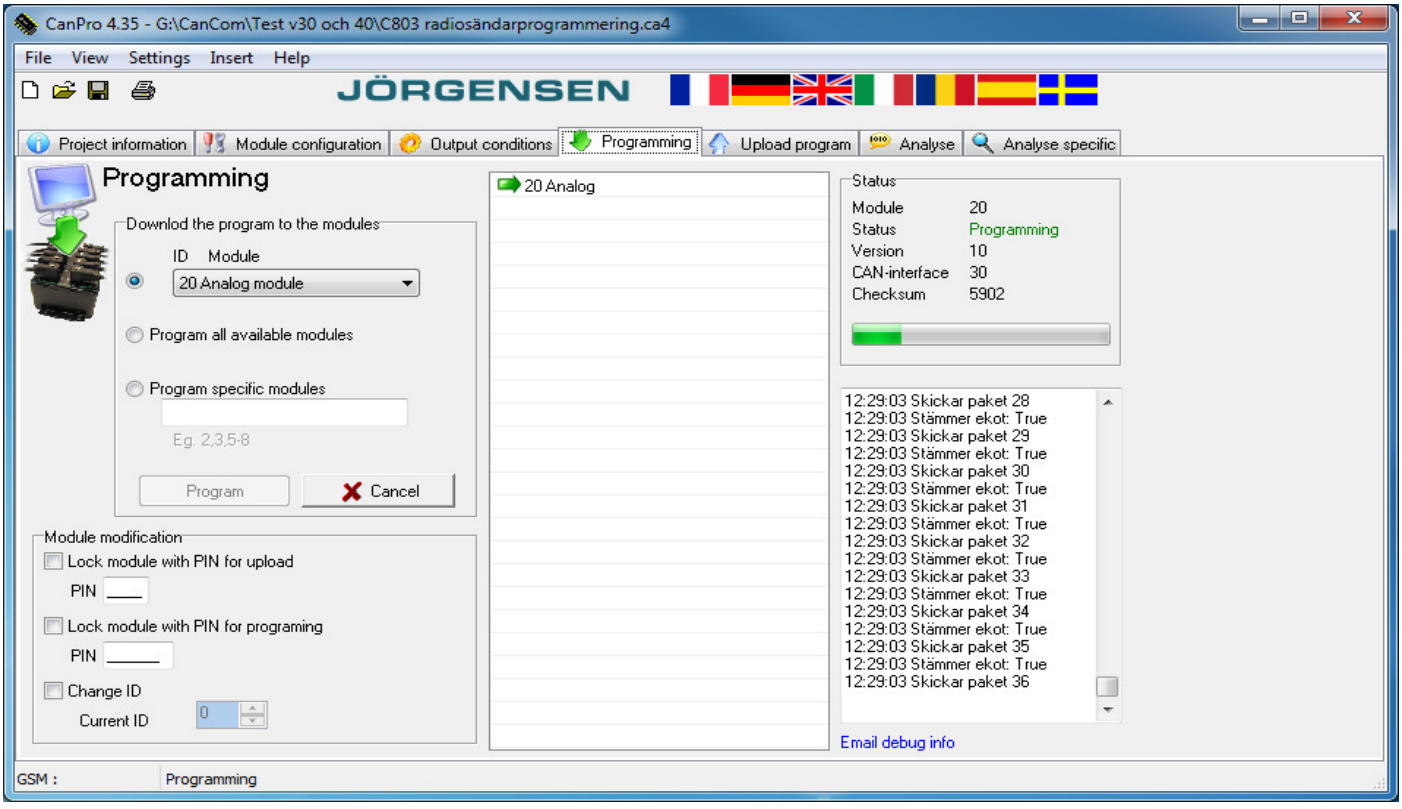
RADIO CODE
Is written on row 1 and 2. If for example code L178 is to be programmed, you write **012** (L = letter no 12) on the first row and **178** on the second row.

JOY, POT or NON
The third row is used for configuring the software for the right hardware; joystick, pots or neither joystick nor pots. If you have a joystick, you write **JOY** and if you have pots, you write **POT**. If you have neither you write **NON**. If nothing is written on row 3 in the module configuration in CanPro, it will be set to **NON** as default.
If you have a joystick you MUST write **JOY**, otherwise the software will not work.

TIMEOUT010 (New from V009, Updated in V014)
On row 4 a timeout value is written, e.g. TIMEOUT010. "TIMEOUT" tells the unit to use the timeout function and "010" is the number of seconds before the timeout. The value is adjustable between 000 - 999 seconds. If the value 000 is written, or if nothing at all is written on the fourth row, the timeout function is not used.
Timeout means that the unit is set to stop mode and the unit will stop transmitting radio or CAN. It is restarted again only by switching the power button off an on again. Timeout happens if no button, joystick or pot is used within the set time.

Register the module as explained above. Go to the tab "Programming". Choose the ID you set for the module and press "Program" to program the transmitter (see pictures below).


CanPro 4.35 - G:\CanCom\Test v30 och 40\C803 radiosändarprogrammering.ca4
File View Settings Insert Help
JÖRGENSEN
Project information
Module configuration
Output conditions
Programming
Upload program
Analyse
Analyse specific
Module Configuration
Add to project
New Module
Type:
Analog
ID 1-25
20
Comment:
Port Function Port Comment
I/O 1 Analog out 017
I/O 2 Analog out 072
I/O 3 Analog out JOY
I/O 4 Analog out TIMEOUT010
I/O 5 -Not Connected-
I/O 6 -Not Connected-
I/O 7 -Not Connected-
I/O 8 -Not Connected-
Radio ID 1____ (0-65535)
Timeout 1._ Sec (0,2-9,9)
Register Module
Cancel registration
Registered modules
20 Analog module
Delete Module
Danfoss
Danfoss settings
PWM
PWM settings
Servo settings
Saftey settings
32/64 Convert
Special features
GSM :


CanPro 4.35 - G:\CanCom\Test v30 och 40\C803 radiosändarprogrammering.ca4
File View Settings Insert Help
JÖRGENSEN
Project information
Module configuration
Output conditions
Programming
Upload program
Analyse
Analyse specific
Programming
Downlod the program to the modules
ID Module
20 Analog module
Program all available modules
Program specific modules
Eg. 2,3,5-8
Program
Cancel
Module modification
Lock module with PIN for upload
PIN ___
Lock module with PIN for programing
PIN _____
Change ID
Current ID 0
20 Analog
Status
Module 20
Status Programming
Version 10
CAN-interface 30
Checksum 5902
12:29:03 Skickar paket 28
12:29:03 Stämmer ekot: True
12:29:03 Skickar paket 29
12:29:03 Stämmer ekot: True
12:29:03 Skickar paket 30
12:29:03 Stämmer ekot: True
12:29:03 Skickar paket 31
12:29:03 Stämmer ekot: True
12:29:03 Skickar paket 32
12:29:03 Stämmer ekot: True
12:29:03 Skickar paket 33
12:29:03 Stämmer ekot: True
12:29:03 Skickar paket 34
12:29:03 Stämmer ekot: True
12:29:03 Skickar paket 35
12:29:03 Stämmer ekot: True
12:29:03 Skickar paket 36
Email debug info
GSM :
Programming

Accessories for the radio transmitter

As accessories for the radio transmitter there is a bracket and cabling.

Bracket

The bracket is made of plastic.
Art no: 83-80350

Cabling

Charging cable
2 meter charging cable with cigarette plug.
Art no: 83-23135

Data/charging cable
This cable is used to communicate through the CAN-bus.
Available in two different lengths:
12 meter - Art no: 83-23112
10 meter - Art no: 83-23111