

BC-ANT-000

Small sized ANT/ANT+ receiver

Key Features:

- High quality ANT receiver with smallest dimensions
- Output to CAN bus
- Many ANT/ANT+ profiles available
- Two high speed profiles
- CAN bus monitor with load information
- 32 online math channels for output modification and calculations
- Up to 8 ANT profiles can operate simultaneously
- Channel sampling from 1Hz to 1000Hz



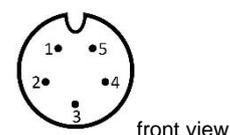
Technical specifications

Electrical characteristics			ANT profiles supported		
Supply voltage	V	8-30	HRM (Heart Rate Sensors)		
Current consumption @12V	mA	55	SDM (Stride Distance Monitor)		
Mechanical characteristics			BC (Bike Cadence)		
Housing material		Plastic	BS (Bike Speed)		
Dimensions	mm ³	40x25x14	CBSC (Combined Bike Speed Cadence)		
Weight	g	35	BP (Bike Power)		
Cable CAN line			BP_CT (Bike Power Crank Torque)		
Wire cross section		4xAWG26	BP_WT (Bike Power Wheel Torque)		
Type		Raychem EPD	BP_HS (Bike Power High Speed)		
Length	mm	800	BP_HS2 (Bike Power High Speed 2)		
connector		Binder 712, 5PM	SHIFT (Shift Unit)		
Environmental data			Ordering information		
Ambient operating range	°C	-25 to +75	BC-ANT-000		
Humidity	%	5 to 95	 Different spec and connectors on request.		
Protection class	IP	67			
Vibration resistance					
Shock	G	40			
During time period of	ms	10			
Vibration tested @	G	12			
Measured with	Hz	1000			

Connector layout

Connector type

CAN line, Binder 712 5PM			
Pin	Name	Description	Color
1	CAN Hi	CAN High	white
2	CAN Lo	CAN Low	green
3	GND	Ground	black
4	n.c.	Not connected	
5	Vext/KL30	Power supply 8-30V	red



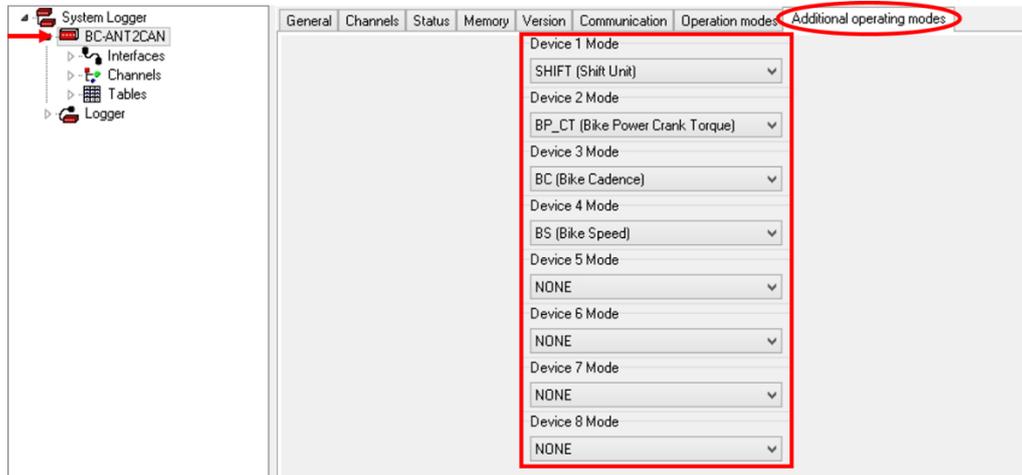
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System setup

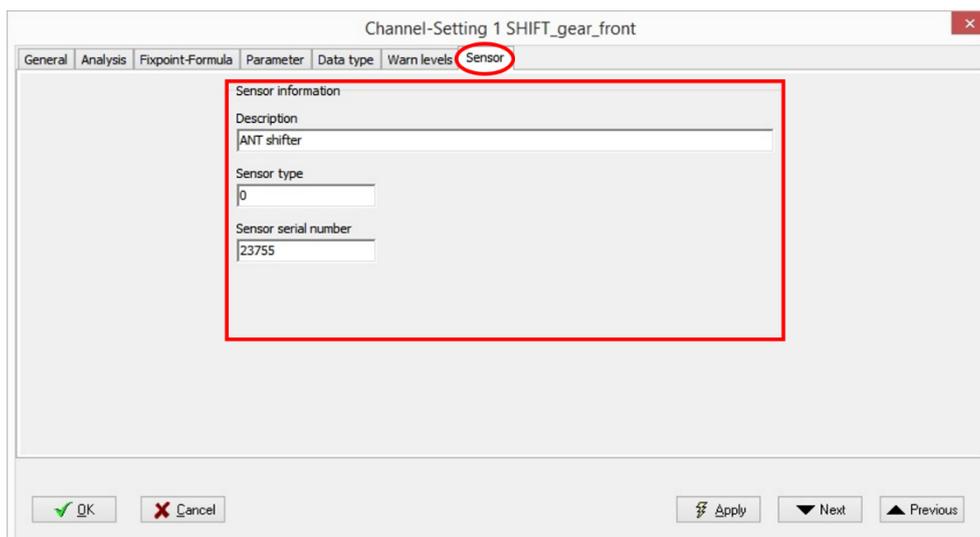
To select the ANT profiles, please select the ANT module inside WinIt's system tree. In tab "Additional operating modes" you can select up to 8 different ANT profiles.



In the next step you need to assign the sensor's serial number to the profiles. There are 12 analog channels reserved for each ANT profile (the programmed channels depend on the selected profile). This means the profiles start at #1, #13, #25, #37, #49, #61, #73 and #85.

Inside the first channel of each ANT profile you have to enter the serial number of the transmitting sensor to link the data to this channels. Please enter the serial number in tab "Sensor", field "Sensor serial number", of the corresponding channel. In addition you can add your own information, for example regarding the sensor, in field "Description" in this tab.

If you are not sure which serial number to enter, you enter "0", which results in all devices belonging to that profile being received and the first received will be taken. As soon as the sensor and the ANT receiver are connected, the serial number will appear in that field (if not, please reload the module in WinIt). After the sensors are assigned inside the module with their serial number and before the ANT module is powered down, please create any setting change and confirm your changes with **<Apply>**.



Please ensure that the serial numbers are correct after a power cycle and before the next use.