

Network Installation Sheet

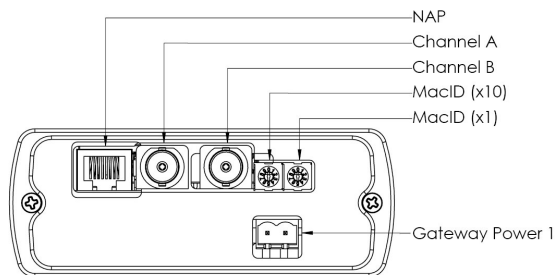
SECG-01 Ethernet ControlNet Gateway ABB Product code: 3AUA0000051449

Product Overview

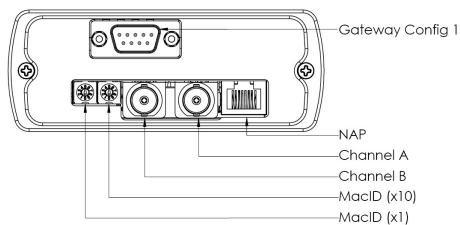
This module SECG-01 is meant to be used with DriveBrowser PC software tool. DriveBrowser is a maintenance and monitoring tool for the ABB LV drives ACS350, ACS355, ACH550, ACS550 and ACS800* drive series. With the SECG-01 module it is possible to build a gateway between ControlNet fieldbus and Ethernet network.

Note: SECG-01 does not need be a scheduled connection but needs to be in unscheduled connections range of the ControlNet network.

The ControlNet Adapter interface can be either top or bottom mounted. Both options are illustrated below.

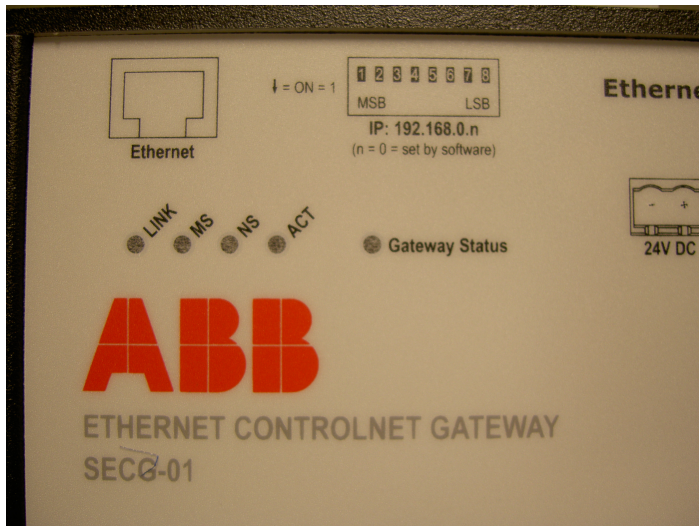


• Top Mounted Interface



Note: Serial 9 pin is not supported

• Bottom Mounted Interface



- Front view

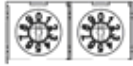
Network Status LEDs

LED	Colour	Indication
MS <i>and</i> NS	Off	Module not initialized
	Red	Major fault
	Alternating red/green	Self test
	Red, flashing	Node configuration error
MS <i>or</i> NS	Off	Channel disabled
	Green	Normal operation
	Green, flashing	Temporary error or not configured
	Red, flashing	No other nodes, or media fault
	Red & green, flashing	Network configuration error
LINK	Green	Initialised
	Green, Flashing	Waiting for initialisation
	Red	Major unrecoverable fault
	Red, Flashing	Minor recoverable fault
ACT	Off	No connection has been opened
	Green	A connection has been opened

Programming ControlNet Mac ID

Mac ID Switches

Two switches are used to specify the ControlNet address in the range 1... 99.

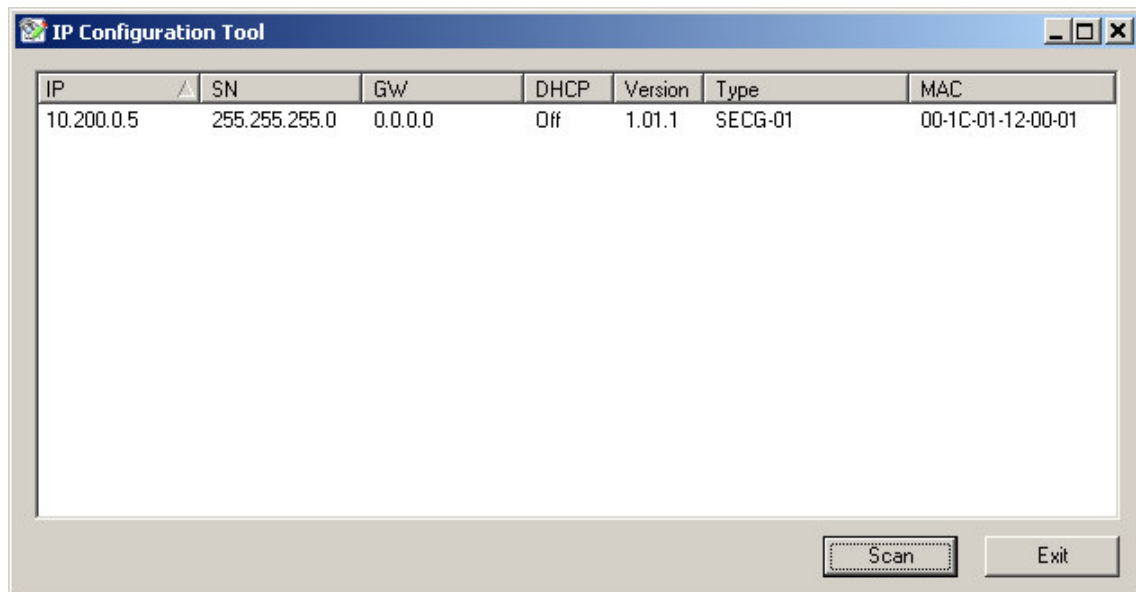


X1 X10

In this example, the MacID is set to 42 (left switch 2 x 1 + right switch 4 x 10).

Programming IP address with ABB IP Configuration tool

Ethernet MAC ID is found from the nameplate of SECG-01 (backside), and the IP address is possible to change with ABB IP configuration tool (Available from www.abb.com/drives. Select Drive PC Tools and select DriveBrowser).



Accessories Checklist

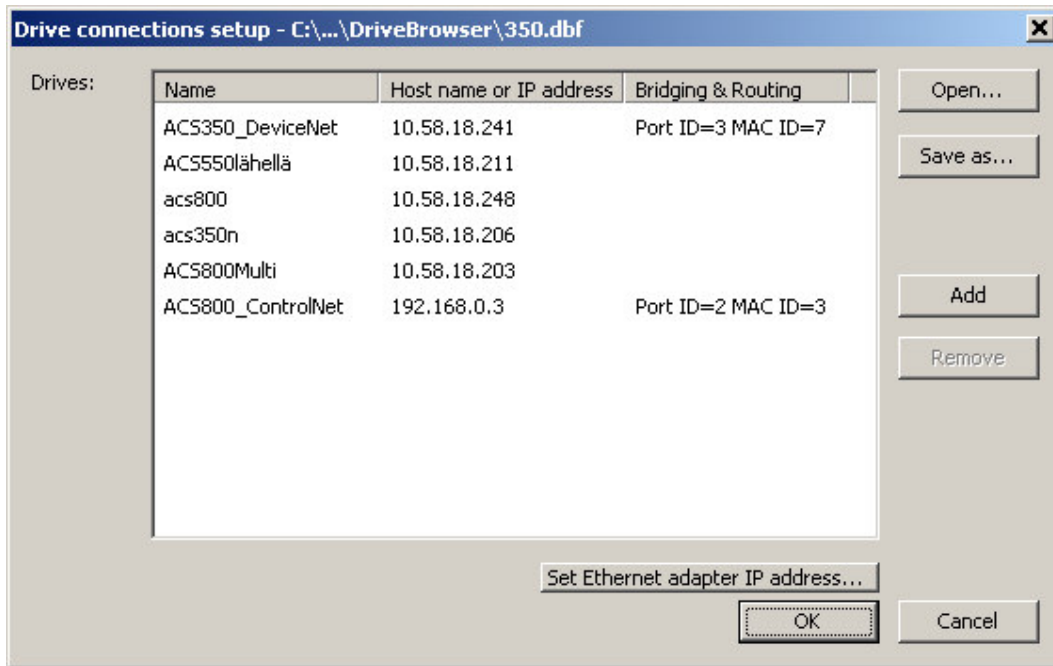
The following items are required for installation:

- ABB IP config. tool (optional) Available from www.abb.com/drives. Select Drive PC Tools and select DriveBrowser
- ControlNet configuration tool (not included)
- EDS-files available from www.abb.com/drives. Select Drive PC Tools and select DriveBrowser

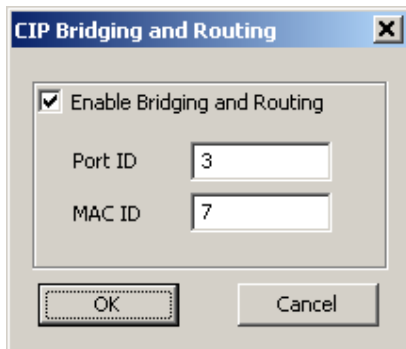
Installation and Startup Summary

1. Connect the gateway to the ControlNet network
2. Select an unused ControlNet MacID using the on board switches.
- 3 Power up and (if required) configure the gateway.
4. Install the EDS file in the ControlNet network configuration tool.

5. Setting up for DriveBrowser. Start up DriveBrowser. Select from Edit-> Drive connections setup.



6. Click Add. Type Name, Type IP address for the SECG-01, Click on Bridging&Routing,



7. Select portID for SECG-01 (Port ID 1,2 or 3). Program the MAC ID to the ControlNet MAC ID for the drive that DriveBroswer will communicate too. Click OK.

8. If you want to use DriveBrowser with an ACH550, ACS550 or ACS800 and the drive is programmed to use an instance other than 100/101 you have to manually copy some ini files from installation folder of DriveBrowser. These files are found from `c:\ProgramFiles\DriveWare\DriveBrowser\IniFilesForControlNetDeviceNetGateways`. There are separate folders for each drive type.

Here is example how to use it. If you for example want to use ACS550 with assembly I/O instances 102/103 you have to manually copy file `0x201.ini` from `c:\ProgramFiles\DriveWare\DriveBrowser\IniFilesForControlNetDeviceNetGateways\ACS550\WorksWithInstance102_103` folder and paste it to `c:\Program Files\DriveWare\DriveBrowser`

If you want to use original ini file it can be found also from `c:\Program Files\DriveWare\DriveBrowser\IniFilesForControlNetDeviceNetGateways\ACS550\Original_WorksAlsoWithInstance100_101`.

Note!! These manual adjustment have to done only if you use ABB Drives profile with I/O Assembly instances 102&103, or ODVA AC/DC profile with I/O Assembly 20&70, or ODVA AC/DC profile with I/O Assembly 21&71 or ODVA AC/DC profile with I/O Assembly 121&171,

10 . DriveBrowser control panel is disabled with SECG-01.

Support

Documentation and software downloads are available at the ABB website, 'www.abb.com/drives'. DriveBrowser manual is available from www.abb.com/drives. Click on Drive PC Tools link

Physical size of SECG-01 gateway is (10,5x15X4,2) cm, (4,1X5,9X1,6) inches

SECG-01 input power is 24 VDC, 300mA