

NBAA-01 FAQ

1. Red LED on the adapter is flashing continuously.

If the red LED is flashing continuously and the other LEDs are off, the adapter is trying to get communication with the drive.

– Check that you have programmed the drive for DDCS communication. Parameter 5005 must be “DDCS” in ACH400 and parameter 98.2 “Fieldbus” in ACS600.

– Check your fiber connections. TxD on drive goes to RxD on the adapter and vice versa. Sometimes end of the fiber may slide inside its crimped connector, if the fibers are pulled out from the drive or the adapter; check that the fiber end is flush with the end of the connector.

2. My adapter does not communicate even it is connected to the drive.

NBAA-01 adapter has two protocols coded into it; Siemens Building Technologies FLN and Johnson Controls N2. Correct protocol needs to be selected to with parameter 2 in fieldbus group to activate communications. Default value for this parameter is no protocol. After the protocol has been selected, the NBAA-01 adapter needs to be reset by powering it down or pulling out on of the fibers, until the red LED starts blinking.

Check also that you have selected the correct baud rate with parameter 4 in the fieldbus group. Note that this is a list value parameter and ACH400 does not show the baud rate selection as text; for example baud rate 9600 is selected by setting the value of the parameter to 3. Please see the NBAA-01 Installation and Start-up Guide for list of alternative settings. This parameter also requires that NBAA-01 is reset, for the parameter change to take effect

3. Drive won't start via FLN or N2.

There is two binary points for both protocols, which need to be commanded high, before the drive can start. Point 24 “CMD STP.STRT” and point 35 RUN ENABLE in FLN and binary output 1 “STOP/START” and binary output 4 “RUN ENABLE” in N2. NBAA-01 run enable is parallel to drive's run enable, which can be activated with a parameter on drive.

If you have ACH400 drive, check that also the parameter 5006 has been set to “DDCS”.

4. Adapter stops communicating after back up generator test

If the adapter power is disconnected for 1-3 seconds the adapter may go into a watch dog fault mode, because the RAM memory may hold its contents during a short power interruption. In the watch dog fault mode all of the NBAA-01 leds are flashing simultaneously.

If short power interruptions are frequent, parameter 51.6 WATCHDOG MODE should be set to RESET (value 1 in case of ACH400) and the adapter will reset the watchdog fault and continue normal operation. Note that the new value of this parameter is valid after power down or after the NBAA-01 has been reset by disconnecting and reconnecting one of the fibers.