AC10 Firmware Update Process IP20 Frame 1-5

The firmware of an AC10 IP20 0.2kW-22kW (excluding 3Ph 230V 15kW) can be updated using the process described here. These can be identified by the Model Number as being frame 1-5.

Parker	Parker Hannifin Corporation			
				www.parker.com
MODEL		10G - 42 - 0065 - BF		
INPUT	3 PH AC	380~480 **V**	7.5/7.0 **A**	50/60 **Hz**
OUTPUT	3 PH	0~INPUT **V**	6.5 **A**	2.2 **kW**
		0~590 **Hz**		
c(UL)us LISTED POWER CONVERSION EQUIPMENT 5DR6 CE IP20 E142140		BAR CODE		
		SW NO. 2.10 BS NO. 1.01		Made In China

For example, is an IP20 AC10 Frame 2 so can be updated.

Required Tools:

1) Programming software (Windows)
2) RS485 4-wire Converter
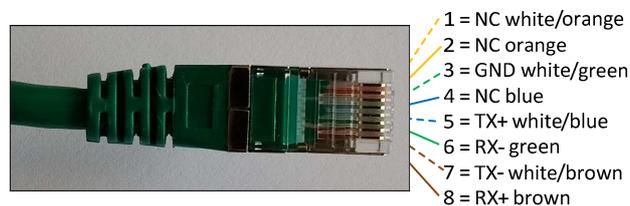3) Programming Cable
4) Jumper for J9 link (bent paper-clip will do.)

The programming software can be downloaded from
http://divapps.parker.com/divapps/ssde/ssde/Downloads/AC10FwInstaller/publish.htm
It includes the latest version of firmware.

Any RS485 converter can be used as long as it supports 4-wire mode. A good example is the Moxa Uport1130 Rs-422/485 USB-to-Serial Adaptor.

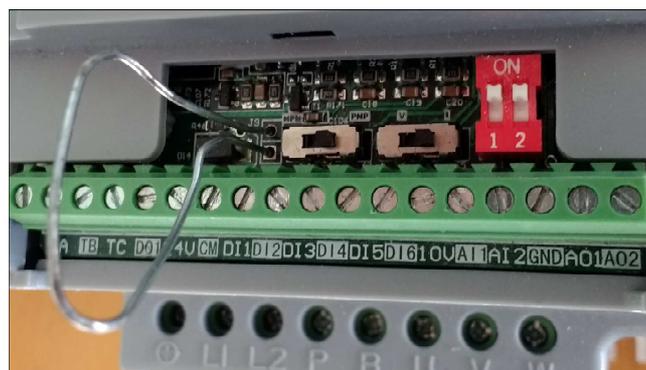The Programming Cable is an RJ45 (Ethernet standard) connected as follows:

1 = NC white/orange
2 = NC orange
3 = GND white/green
4 = NC blue
5 = TX+ white/blue
6 = RX- green
7 = TX- white/brown
8 = RX+ brown

the same cable connected to a Moxa converter:

Jumper for J9 link:

The Process

Connect the AC10 to the 230V cable Live and Neutral to L1&L2 only

↓

Connect Programming Cable

↓

Link pins of J9

↓

Plug the cable into the main socket and Power On

↓

Run Upgrade Utility

↓

Power Off and wait 30 seconds

↓

Remove Link from J9

↓

Disconnect Programming Cable

↓

Power On

↓

Set F101 = 2015, press E
Set FC60 = 1235, press E

↓

Power Off and wait 30 seconds then Power On

↓

Set F101 = 2015, press E
Set F103 = rated power listed on side of the drive, press E
Set F104 = 1, 2 or 3 where:
        1 = 1 Phase AC 230V
        2 = 3 Phase AC 230V
        3 = 3 Phase AC 380-480V
    ,press E
If error reported when setting F103 or F104, press M and continue
Set F160 = 1, press E

↓

Power Off

AC10 FW Upgrader V1.3.0.0

For use with AC10 IP20 0.2kW - 22kW (NOT 3Ph 230V 15kW)

Setup AC10 Serial Communication

Port:
  COM4 Qualcomm Gobi 2000 HS-USB NMEA 9205 (COM4)
  COM14 Standard Serial over Bluetooth link (COM14)
  COM8 Intel(R) Active Management Technology - SOL (COM8)
  COM1 MOXA USB Serial Port (COM1)
  COM15 Standard Serial over Bluetooth link (COM15)
  COM5 Qualcomm Gobi 2000 HS-USB Diagnostics 9205 (COM5)

Baud Rate:

Firmware File
Built In AC10G13AL227.bin
User   Browse to File

Install Firmware
        Install

0 KB/s

AC10 FW Upgrader V1.3.0.0

For use with AC10 IP20 0.2kW - 22kW (NOT 3Ph 230V 15kW)

Setup AC10 Serial Communication

Port: COM1
Baud Rate: 115200

Connected: Ver: 2.2, PID: 0x0414

Firmware File
Built In AC10G13AL227.bin
User   Browse to File

Install Firmware
        Install

6.84 KB/s