

Setting up the ATV12 for Modbus control

Set up parameters menu CON

Conf enter
Full enter
CON enter

ADD= Modbus address 1 thru 127
Tbr= network speed baud rate 19.2
tFO= Format 8E1
trO= Timeout 10 seconds

Writing speed in RPM's
CMD word is 8601 is the start and stop
LFRD speed set point 8602 is Frequency reference in RPM's

Writing speed in HZ's
CMD word is 8501 is the start and stop
LFRD speed set point 8502 is Frequency reference in HZ's

ETA Status Word 8603 monitoring motor speed in RPMs

ETS Status Word 8501 monitoring motor speed in HZ's

To start the drive you write a Dec 6, then 7 then 15 to 8601 or 8501 (Check for offset values)

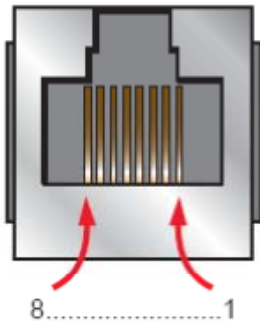
Speed Freq HZ value 8502 RPM speed value 8602

Communication configuration - Parameters decription

| Parameter description | Range or listed values | default | Possible Value | Modbus address |
|---|---|-----------|--|-----------------|
| MODBUS address of the drive <i>ADD</i> | 1 to 247 0 : OFF (broadcast only) | OFF | <i>OFF</i> <i>1 . . . 247</i> | 16#1771 = 06001 |
| MODBUS baud rate <i>tbr</i> | 4,8 kbps 9,6 kbps 19,2 kbps 38.4 kbps | 19,2 kbps | <i>4. 8</i> <i>9. 6</i> <i>19. 2</i> <i>38. 4</i> | 16#1773 = 06003 |
| MODBUS format <i>tFO</i> | 8O1: 8 bits, odd parity, 1 stop bit. 8E1: 8 bits, even parity, 1 stop bit. 8N1, 8 bits, no parity, 1 stop bit 8N2: 8 bits, no parity, 2 stop bits. | 8E1 | <i>8 o 1</i> <i>8 E 1</i> <i>8 n 1</i> <i>8 n 2</i> | 16#1774 = 06004 |
| MODBUS Time out <i>trO</i> | Adjustable from 0.1 to 30s | 10,0 s | <i>t t O</i> | 16#1775 = 06005 |
| <i>ICS -</i> | Communication scanner submenus :Detailed in the next chapter | | | |
| <i>DCS -</i> | | | | |
| <i>ISA -</i> | | | | |
| <i>DSA -</i> | | | | |

The behaviour of the ATV12 when a time-out occurs is defined by the *SLL* parameter, this parameter can be found in the menu *FLt -* (see User Manual).

View from underneath



| Pin | Signal |
|-----|------------|
| 1 | - |
| 2 | - |
| 3 | - |
| 4 | D1 (1) |
| 5 | D0 (1) |
| 6 | - |
| 7 | VP (2) |
| 8 | Common (1) |