

## Cara konfigurasi Jockey Pump pada ATV 6xx

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**Purpose** Untuk memahami cara setting Jockey Pump pada ATV6xx

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**What units are effected**

1. Altivar 6xx
2. Graphical Display Terminal atau HMI

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**Details** This application is divided into several parts

| Section | Title                          |
|---------|--------------------------------|
| 1       | Parts List                     |
| 2       | Description Of Graphic Display |
| 3       | Step by step Setup             |
| 4       | Remark                         |
|         |                                |
|         |                                |

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## Section 1; Parts list

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**Parts List table** Items used in the test

| Items       | Part numbers | Description                |
|-------------|--------------|----------------------------|
| ATV Process | • ATV6xxxxxx | VSD                        |
| HMI         | • VW3A1111   | Graphical Display Terminal |

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## Section 2; Description Of Graphic Display

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### Cara Pemasangan HMI Display

#### Description of the Graphic Display Terminal

This Graphic Display Terminal is a local control unit which can be either plugged on the drive or mounted on the door of the wall-mounted or floor-standing enclosure. It has a cable with connectors, which is connected to the drive front Modbus serial link. The Graphic Display Terminal embeds a real time clock used for the time stamping of logged data and all other functions which require time information.



**1 STOP / RESET:** Stop command / apply a Fault Reset.

**2 LOCAL / REMOTE:** used to switch between local and remote control of the drive.

**3 ESC:** used to quit a menu/parameter or remove the currently displayed value in order to revert to the previous value retained in the memory

**4 F1 to F4:** function keys used to access drive id, QR code, quick view, and submenus. Simultaneous press of F1 and F4 keys generates a screenshot file in the Graphic Display Terminal internal memory.

**5 Graphic display.**

**6 Home:** used to access directly at the home page.

**7 Information:** used to have more information about menus, submenus, and parameters. The selected parameter or menu code is displayed on the first line of the information page.

**8 RUN:** executes the function assuming it has been configured.

**9 Touch wheel / OK:** used to save the current value or access the selected menu/parameter. The touch wheel is used

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to scroll fast into the menus. Up/down arrows are used for precise selections, right/left arrows are used to select digits when setting a numerical value of a parameter.

**10 RJ45 Modbus serial port:** used to connect the Graphic Display Terminal to the drive in remote control.

**11 MiniB USB port:** used to connect the Graphic Display Terminal to a computer.

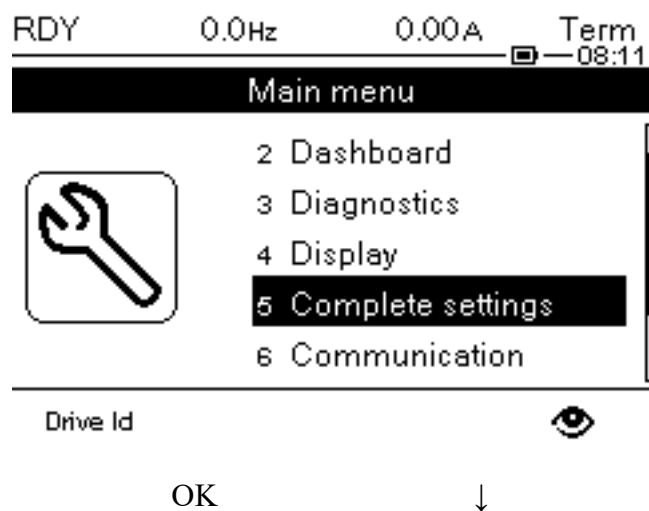
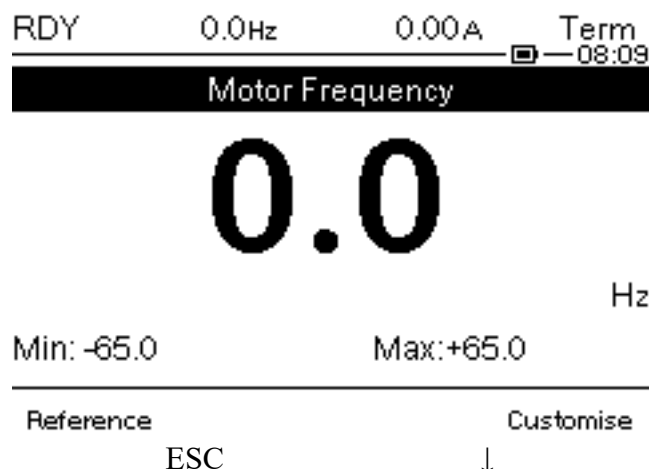
**12 Battery** (10 years service life. Type: CR2032). The battery positive pole points to the front face of the Graphic Display Terminal.

**NOTE:** Keys 1, 8 and 9 can be used to control the drive if control via the Graphic Display Terminal is activated. To activate the keys on the Graphic Display Terminal, you first need to set **[Ref Freq 1 Config]** Fr1 to **[Ref.Freq-Rmt.Term]** LCC.

## Section 1; Parts liststep by step setup

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Untuk menuju layar konfigurasi setelah inverter dinyalakan, tekan tombol ENT atau ESC. Untuk menampilkan Main Menu. Dari layar Main Menu posisikan kursor pada Complete Setting (no.5), kemudian tekan OK. Pada halaman Complete Setting pilih Pump Function kemudian tekan OK. Pada halaman Pump Function pilih menu Jockey Pump.




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RDY 0.0Hz 0.00A Term 04:11

- 5 Complete settings
- 5.1 Motor parameters
- 5.2 Define system units
- 5.3 Sensors Assignment
- 5.4 Command and Refere..
- 5.5 Pump functions



RDY 0.0Hz 0.00A Term 03:46

- 5.6 Pump functions
- Pipe fill
- Friction loss comp
- Jockey pump
- Priming pump ctrl
- Flow limitation



RDY 0.0Hz 0.00A Term 03:37

- Jockey Selection
- Not Assigned ✓
- R2
- R3
- VSP

|                  |       |        |      |
|------------------|-------|--------|------|
| RDY              | 0.0Hz | 0.00A  | Term |
| 03:37            |       |        |      |
| Jockey pump      |       |        |      |
| Jockey Selection |       | R2     |      |
| Minimum Pressure |       | 0.0bar |      |
| Delay to start   |       | 0s     |      |
| Maximum Pressure |       | 0.0bar |      |
| Wake up Delay    |       | NO     |      |

### Jockey Selection

Pilih Relay untuk menghidupkan jockey pump R2,R3 ( kontak relay yang ada di drive), VSP jika menggunakan Variable speed drive.

### Minimum Presurre

Pressure Threshold untuk start jockey pump.

### Delay To Start

Waktu delay sebelum jockey pump start setelah pressure melewati nilai minimum.

### Maximum Pressure

Pressure Threshold untuk menstop jockey pump.

### Wakeup Delay

Waktu delay sebelum jockey pump stop setelah pressure melewati nilai maksimum.

## Section 4; Remark

Menu Jockey Pump ini dapat diakses jika:

[Type of control] tOCT di set [PRESSURE] PrESS, dan

[PID feedback] PIF sudah di assign, dan

[Sleep Detect Mode] SLPM tidak di set [No] no.

Note : Pastikan wiring Inverter altivar ATV6xx telah terkoneksi dengan benar.