



## Innovation in soft start technology



# VMX-AGY-010-N4

**IP66 REMOTE KEYPAD USER GUIDE** 

MAN-AGY-023-V01



## Remote Keypad User Guide

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[Full User Manual (MAN-AGY-015) available from www.motortronics-uk.co.uk]

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## **Connection and Operation**

The remote keypad (VMX-AGY-010-N4) can be used to control, monitor and program up to 32 VMX-agility<sup>TM</sup> soft starters.

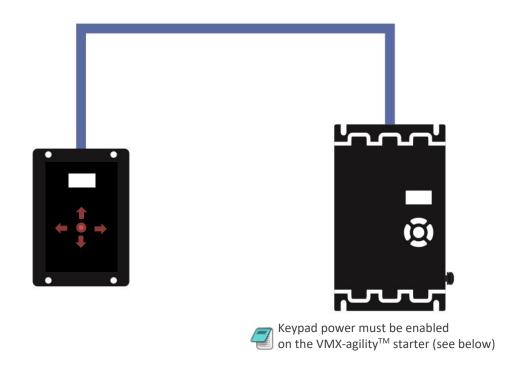
The unit is powered from the host VMX-agility<sup>™</sup> and requires an Ethernet cable for communication (Modbus RTU).

As the remote keypad acts as the Modbus master, no additional master units must be placed within the network. Failure to observe this may lead to erratic behaviour, network failure and/or equipment damage.



#### **Network Connection**

For a configuration where there is only one VMX-agility $^{TM}$  unit (one-to-one), the remote and main unit can be directly cabled. See Diagram below:

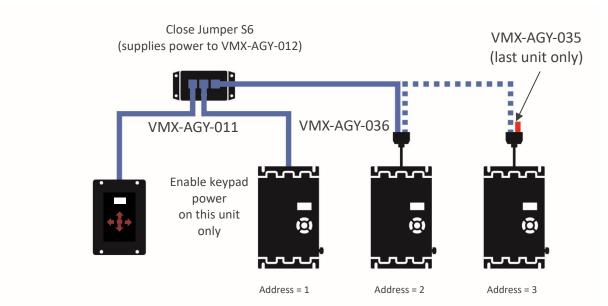


**Enabling Keypad Power:** Scroll to DEVICE menu → KEYPAD menu → KEYPAD PWR = ON



## **Connection and Operation (continued)**

For multiple base units connected to the keypad, the use of VMX-AGY-011, VMX-AGY-036 and VMX-AGY-035 (terminator) is highly recommended. See diagram below.



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The VMX-agility<sup>™</sup> units must have: a unique Modbus address on each unit and identical Parity/Baud rate values on each unit

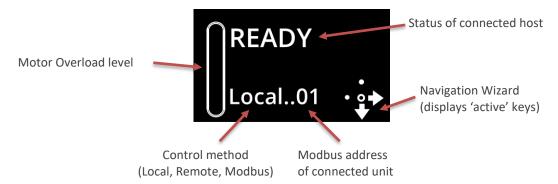
#### Operation

Once connected to the VMX-agility<sup>TM</sup> host unit/s, menu structures and programming are the same as detailed in the VMX-agility<sup>TM</sup> manuals MAN-AGY-015 and MAN-AGY-014 (both may be downloaded from www.motortronics-uk.co.uk).

However, specific steps must be taken to connect the Remote Keypad to one or more VMX-agility<sup>™</sup> host units.

#### **Initial Power-Up**

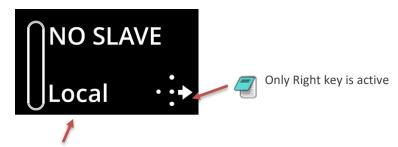
If the host VMX-agility<sup>TM</sup> unit/s and the remote keypad have the default Modbus transmission parameters set, and the host unit is powered and has Keypad power set to 'on', the keypad will automatically communicate with the host. The following status screen will be seen:





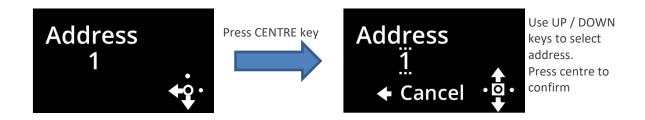
## **Connection and Operation (continued)**

If any of the Modbus communication parameters are dissimilar on the host unit or remote keypad, communication will not be established. The keypad will display the following screen:



May show: Local, Remote or Modbus

By pressing the Right key, the user will be taken directly to the Modbus address selection menu:



If the selected Modbus address is valid, the status screen is displayed:



#### **Selecting Units to Monitor/Configure**

When the Remote Keypad is attached to multiple VMX-agility<sup>TM</sup> units on the Modbus network, the user can switch between each unit by using the following method.



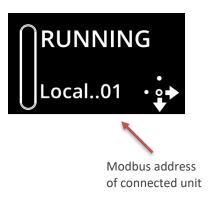
To simplify this selection process, it is recommended that the host VMX-agility  $^{\text{TM}}$  units are configured with consecutive Modbus addresses.

(continued over)



## **Connection and Operation (continued)**

Procedure:



- 1. Press the 'Right' key
- 2. Address selection screen will be shown



3. Press the 'Centre' key. Display will change mode



- 4. Use 'Up' or 'Down' keys to change address to the desired number (VMX-agility  $^{\text{TM}}$  address). Press the 'Centre' key to confirm
- 5. Remote display will return to the Status screen and display the new address





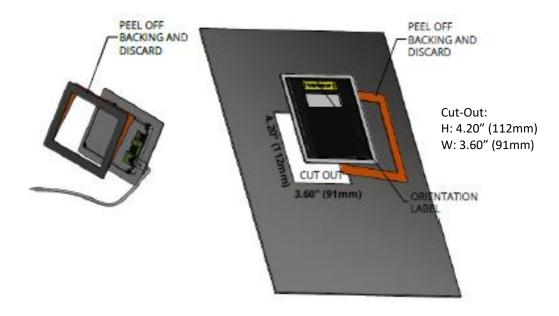
#### Installation

#### Mounting

Fix the unit to a flat, vertical surface using the self-adhesive gasket supplied with the keypad enclosure.

- The orientation of the unit has the 'TOP' uppermost
- The location allows adequate front access
- The screen can be viewed

Do not install other equipment that generates significant heat close to the keypad.



#### **Firmware Update**

- 1. Download the latest firmware version from <a href="www.motortronics-uk.co.uk">www.motortronics-uk.co.uk</a> and copy the files to a USB flash drive
- 2. Power down the Remote Keypad and insert the USB flash
- 3. Power-up the remote Keypad, the update will start automatically
- 4. When the update is complete (status screen shown), recycle the Remote Keypad power



Note: The host units and Keypad must have the same firmware version.

