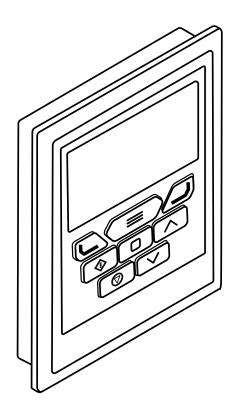


OPTIPAD

TFT Remote Keypad

IP55



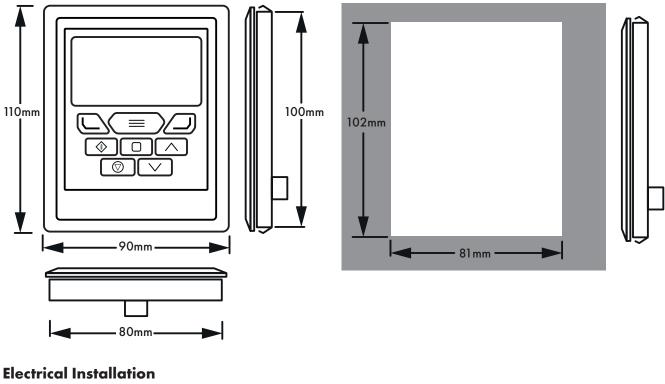
General Specification

Compatible Drives:	ODE-2, ODE-3, ODP-2, ODL-2, ODV-3, CV		
Signal Interface:	Standard 8-way RJ45 connector		
Supply Input:	24V + / - 10%, DC, 30mA		
RS485 Signal:	Industry standard 2-wire +5V differential		
Environmental:	Operational: -10 50°C Storage: -40°C 60°C		
Relative Humidity:	< 95% (non condensing)		
Protection Rating:	IP55		
Max Cable Length:	25m / 82.5ft shielded twisted pair		

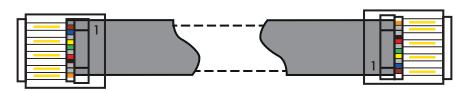
Mechanical Installation Dimensions

Through Panel Mount

The panel on to which the Optipad is to be mounted should be cut out in accordance with the diagram below.

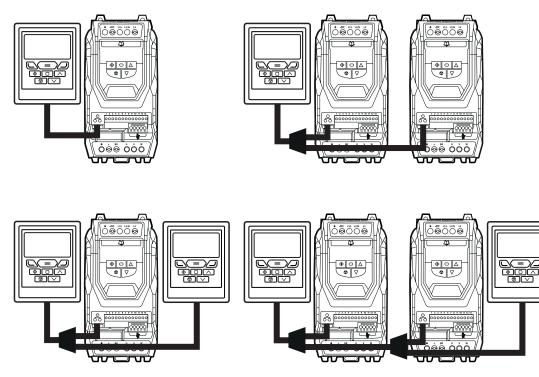


Cable Requirements



CAUTION! Incorrect cable connection may damage the drive. Extra care should be taken when using third party cable.

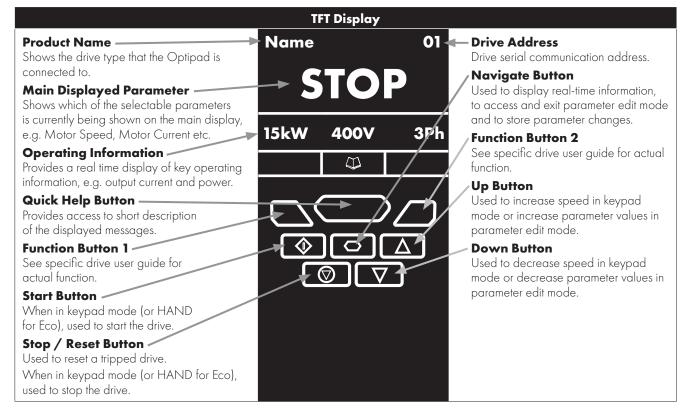
Allowed System Configurations



Different drive models can be used on the same Optipad network provided a unique communications address is assigned to each. **NOTE** Cannot be used with Master – Slave or Cascade Control

Keypad and Display Layout

The illustration below explains the main features of the Optipad. Please note that some features and display messages are specific to certain variants of the Optidrive family.



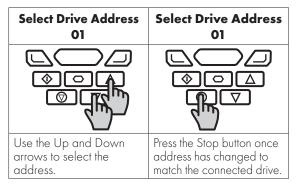
Easy Startup

To setup the Optidrive communication address

By default, the Optipad will try to communicate with the drive that has Address 1 in the network after powering up for the first time.

The Optipad will display **"Scanning for Drive 01."** after power up, which indicates that the Optipad is searching for the drive with the correct drive address in the network. Once the drive has been found, the message **"Load..."** will be displayed on the Optipad, which indicates that the Optipad is reading the configuration information from the drive. Usually it will take 1~2 seconds for the Optipad to read this information. After the data has been loaded, the Optipad will display the drive real time status.

NOTE In the case where the keypad is connected to a drive where the network address is not 1, the following steps can be used to set the address of the drive



Working with Multiple Drive Networks

When the Optipad is used on networks with multiple drives, the user can change the drive address to set up communication with another drive in the same drive network at anytime.

Select Drive Address xx	Select Drive Address xx	Select Drive Address xx
Briefly press the Stop and Down keys to display the above message.	Use the Up and Down arrows to select the desired address.	After selecting the new address, press the Stop and Down keys to establish communications with the drive.

NOTE For detailed parameter listing and functional setup, please refer to the corresponding Optidrive user guide

Networks with 2 Optipads connected

A maximum of 2 Optipads can be connected within the same drive network to communicate with the same drive or different drives.

When using two Optipads simultaneously on a network, the user must change the Optipad Device Number on the second Optipad to ensure correct operation. All Optipad units are set to Device Number 1 by default.

Select OptiPad ID xx	Select OptiPad ID xx	Select OptiPad ID xx
	$\bigcirc \bigcirc \square \square$	$\bigcirc \bigcirc \triangle$
		<i>d</i>)
To change the Device	Use the Up and Down	Press the Stop key
Number, press the	arrows to select the	to return ro normal
Navigate, Stop and	desired Optipad Numer	operation.
Down keys together.	(1 or 2).	

NOTE Once the User has set the Optipad as Device Number 2, OptiTools software cannot be used on the same drive network. The Optipad Device Address should only be changed to 2 if 2 Optipad units are connected on a network. An Optipad with Device Number 1 must always be present for the network to function correctly.

Changing the Display Language

STOP	Select Language Español Deutsch English	Select Language Español Deutsch English	
Hold down the Start and Up keys for >1 s	Use the Up and Down arrows to select a language.	Press the Navigate button to select.	

Operating Displays

Inhibit / STO Active	Drive Stopped	Drive Running Output Frequency Display	Drive Running Output Current Display	Drive Running Motor Power Display	Drive Running Motor Speed Display
Name 01	Name 01	Output Frequency 01	Motor Current 01	Motor Power 01	Motor Speed 01
INHIBIT	STOP	23.7Hz	15.3A	6.9kW	718 rpm
15kW 400V 3Ph	15kW 400V 3Ph	15.3A 6.9kW	6.9kW 23.7Hz	23.7Hz 15.3A	23.7Hz 15.3A
	COJ ⊗od ®⊽				
Drive Inhibited. The STO connections are not made.	Drive Stopped / Disabled.	Drive is enabled / running, display shows the output frequency (Hz). Press the Navigate key to select alternative displays.	Press the Navigate key for < 1 second. The display will show the motor current (Amps).	Press the Navigate key for < 1 second. The display will show the motor power (kW).	If P1-10 > 0, pressing the Navigate key for < 1 second will display the motor speed (Rpm).

Additional Display Messages

Auto Tuning in Progress	External 24VDC Supply	Overload	Fire Mode
	Name 01	Name 01	Fire Mode
Auto-tuning	Ext 24V	ol 23.7Hz	
	External 24V mode	15.3A 6.9kW	
R S S S S S	R S S S S S	R S S S S S	A
Auto tune in progress.	The drive control board is powered only from an external 24 Volt source, with no mains power applied.	Indicates an Overload condition. Output current exceeds the motor rated current.	Display shows 'Fire Mode'.

	ng Frequency eduction				intenance e Elapsed		
Name	01	Name	01	Name	01	Name	01
SF↓	23.7Hz	ML	23.7Hz	OL	23.7Hz	ĭ	23.7Hz
15.3A		15.3A	6.9kW	15.3A	6.9kW	15.3A	6.9kW
	$\overline{\mathbf{v}}$						
reduced,	frequency is due to high emperature.		ng mains ply has been ed or is missing.		is in overload current higher ed current.	The user prog maintenance has elapsed.	rammable reminder time

Changing Parameters

	Name 01	Name 01	Name 01	Name 01	Name 01
Stop	P1-01	P1-08	30.0A ‡	P1-08	Stop
15kW 400V 3Ph	50.0Hz	30.0A	P1-08 ↑30.0 ↓3.0	30.0A	15kW 400V 3Ph
⊘∩∩	() ()		() ()	୲୕ୖୢୢୢୢଢ଼ୄ୷ୢୖ	୲୕ୖୢୢଢ଼ୣ୲ୖ
<u>ک</u> رک				<u>ित</u> णम्	هراسک
Press and hold the Navigate key > 2 seconds.	Use the Up and Down keys to select the required parameter.	Press the Navigate key for < 1 second.	Adjust the value using the Up and Down keys. Display will show	Press for < 1 second to return to the parameter menu.	Press for > 2 seconds to return to the operating display.
	Display will show the present parameter value on		the maximum and minimum possible settings on the		
	the lower line of the display.		lower line of the display.		

Parameter Factory Reset / User Reset

Factory Parameter	r Reset :		User Parameter Re	eset :	
Name 01	Name 01	Name 01	Name 01	Name 01	Name 01
Stop	P-Def	Stop	Stop	U-Def	Stop
15kW 400V 3Ph	50.0Hz	15kW 400V 3Ph	P1-08 ↑30.0 ↓3.0	30.0A	15kW 400V 3Ph
		$\bigcirc \bigtriangledown $			$\bigcirc \bigtriangledown$
Press and hold the	The display shows	The display	Press and hold the	The display shows	The display
Up, Down, Start	P-def. Briefly press	returns to Stop. All	Up, Down and Stop	U-def. Briefly press	returns to Stop.
and Stop keys for	the Stop key.	parameters are	keys for >2s.	the Stop key.	All parameters
>2s.		reset to Factory defaults.			are reset to User Defaults.
		derduirs.			Deraulis.

Drive Fault Messages and Trip Codes

See Optidrive User Guide for further information.

Further Status Messages and Troubleshooting

Optipad uses various display messages to indicate different working status. See the following table for more information.

Status Messages

Message	Explanation
Scanning for Drive	The Optipad is searching for the drive with address 'xx' in the network.
xx	
Load	The Optipad has found the drive in the network and is loading the initialisation information from the drive.
SC-OBS	The communication link between the Optidrive and Optipad has failed.
Select Language	Displayed in the language selection screen, with a list of available languages. Press the Navigate key to select a language
Select drive address xx	Displayed when selecting the address of the Optidrive that the Optipad should try to communicate with. Press the Stop key to select the drive address.
Select OptiPad ID	Displayed when selecting the Optipad ID (1 or 2) so that two Optipads can be connected to a single drive, or network of multiple drives.

Troubleshooting

Symptom	Explanation
Select drive address	The Optipad failed to successfully communicate with the specified drive address in the network.
xx displayed after	Check that the RJ45 data cable connection is correct. Check that the drive with address XX is available in the network.
'SCAN' message	If XX > 1 and only one Optipad is connected, then check the Optipad device number, make sure the number is 1.
Display 'Err-id' on power up	This normally occurs when there are two Optipad units in the same drive network and both of them have the same device number. Check and change the device number of one Optipad.
Display 'Err-id' during normal operation	This normally occurs when the user plugs a second Optipad into the drive network. Change the device number of one of the Optipad units.
Display	Communication link between the Optipad and Optidrive has failed during operation.
'SC-OBS'	Check the electrical connection, and make sure the cable is connected correctly between the Optipad and the drive. Press 'STOP' button to enable the Optipad to search for the drive again.



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