



nOKOTECH

DIGITAL 600/PRO 600

USER MANUAL



SCAN FOR LATEST USER MANUALS



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1. INTRODUCTION

Thank you for purchasing the **DIGITAL 600/Pro 600** electronic ballast and joining the NOKOTECH users club. This manual contains all the information needed to learn, install and use the product. Please read this manual carefully before trying to install and/or operate the DIGITAL 600/Pro 600 electronic ballast. If you are not comfortable installing high-performance lighting systems, you should always look for the services of a qualified professional.

We highly recommend you to check for the latest version manual on our webpage www.nokotech.co.uk/support. At the end of this manual, you will find the date of the last edit.

We hope to get your feedback no matter it is good or bad. Your valuable reviews help us take the products to the next level.

■ **For any information, don't hesitate to contact:**

support@nokotech.co.uk
+44 7984 917932
www.nokotech.co.uk

2. PRODUCT DESCRIPTION

DIGITAL 600/Pro 600 is an electronic ballast with a case made using mainly high-quality anodized aluminum in a very comfortable and efficient design. It is a high-performance ballast suitable for use with either High-Pressure Sodium or Metal Halide lamps. In this manual, the product DIGITAL 600/Pro 600 will be referred to as: *'the ballast'*.

This ballast is for indoor use only (climate-controlled indoor farms and grow rooms). But it is not meant for use in dwellings for general or architectural purpose illumination. This ballast is specially designed and manufactured for horticulture lighting systems only. Any use other is considered unintended use.

NOKOTECH can't be held responsible for any possible damage/harm caused by incorrect, inappropriate and/or inadvisable use of the fixture.

WARNING

This warning sign notes the possibility of injury to the user and/or damage to the product if the user does not perform the procedures as described.

ATTENTION

This attention sign notes the problems which may occur if the user does not perform the procedures as described.

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3. PRODUCT SPECIFICATIONS

DIGITAL 600

Power:	600W
Input voltage:	220/240V
Input frequency:	50-60Hz
THD:	≤10% (at dimming 100%)
Dimming:	Knob
Min Power Factor:	≥0.98
Lamp:	600W HPS and MH
Recommended ambient temperature:	15-30°C / 59-86°F
Max ballast temperature:	70°C / 158°F
Gross weight:	2kg / 4.4lbs
Dimensions / mm (L.W.H):	280 x 98.5 x 57.3
Dimensions / in (L.W.H):	11 x 3.9 x 2.3

DIGITAL Pro 600

Power:	600W
Input voltage:	220/240V
Input frequency:	50-60Hz
THD:	≤10% (at dimming 100%)
Dimming:	Knob & PWM controller
Min Power Factor:	≥0.98
Lamp:	600W HPS and MH
Recommended ambient temperature:	15-30°C / 59-86°F
Max ballast temperature:	70°C / 158°F
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4. SAFETY RECOMMENDATIONS

Please carefully read recommendations and warnings before installing and using the ballast!

The installation and use of the ballast is the responsibility of the end user. Incorrect installation can cause damage to the product. The warranty shall become void if the product and/or electronic components are damaged due to incorrect installation.

WARNING

- Always adhere to the local building and electrical codes (local rules and regulations) when installing or using the ballast.
- Do not open and/or disassemble the ballast as it contains no serviceable parts inside. Opening and/or modifying the ballast can be dangerous and will void the warranty.
- Connect the ballast only to the power sources of the appropriate voltage using the plug received with the packing. Never plug the ballast in unless it is already connected to a lighting fixture - complete with a lamp.
- Always switch off the main voltage before commencing installation or maintenance work (for example, before handling the reflector or changing the lamp).
- Do not use the ballast when either the lighting fixture or its power cable is damaged. Modifications to the cables can lead to unwanted electromagnetic effects which may damage the product. Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet and the ballast.
- Do not defeat the safety purpose of a grounding or polarized plug by removing ground pins. You may replace the power cable with a correctly rated cable only.
- The ballast is passively cooled with zero moving components. Natural convection removes heat away from the heatsink. In order for the system to properly cool itself, at least 20cm (8in) of clearance for your ballast on all sides is recommended, do not place them close together nor stack them upon each other.
- Do not use the ballast near flammable, explosive, or reactive substances. Never immerse the ballast, or the lead and plug, in water or any other liquid.

4.1 SAFETY RECOMMENDATIONS

Please carefully read recommendations and warnings before assembling and using the fixture!

The installation and use of the fixture is the responsibility of the end user. Incorrect installation can cause damage to the product. The warranty shall become void if the product and/or electronic components are damaged due to incorrect installation.

ATTENTION

- Never pull the cord to unplug the ballast, pull the plug only.
- Lamps are incredibly hot while in use. Never touch an illuminated lamp and allow plenty of time for them to cool down before touching.
- Always use good quality lamps with your ballasts - preferably from the major manufacturers. Cheap inferior lamps may fail to ignite and should be avoided.
- Allow lamps to cool down after use. Do not attempt to restrike a hot lamp for at least 20 minutes. This careful usage will significantly extend useful lamp life.

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5. PRODUCT INSTALLATION

Please carefully read recommendations and warnings before assembling and using the fixture!

The installation and use of the fixture is the responsibility of the end user. Incorrect installation can cause damage to the product. The warranty shall become void if the product and/or electronic components are damaged due to incorrect installation.

What is included in the box?

The ballast:	1 unit
AC power cord:	1 piece, 2m (6.5ft)
RJ cable (for PWM controller:	1 piece (DIGITAL Pro 600 only)

Preparation for installation

1. Refer to your light plan. Arrange the place for the ballast & fixture to be mounted. Prepare steel cables and appropriate "hangers" or any other tools to hang the fixture, as it will have to hold significant weight.
2. Remove the ballast from the packaging and check contents. Check if the power cord is not damaged and safe to use.
3. Bring any additional tools and/or hardware that may be required to mount the fixture.
4. Switch off the main voltage.

WARNING

- Mounting and installing the ballast & fixture must be in accordance with the applicable local laws and regulations.
- Make sure the local cabling can support the voltage and current requirements of the ballast.
- The installer is responsible for correct and safe installation.

5.1 PRODUCT INSTALLATION

The ballast installation

1. Hang reflector in the chosen location. Find a suitable place for the ballast. The unit must not be mounted on a flammable surface but preferably placed on a shelf or wall-mounted. It should NOT be placed on the floor where it can be affected by water.
2. Make sure that the lamp's wattage matches the ballast wattage. Screw the lamp into the reflector tightly. Wipe the lamp with a soft cloth after handling it.
3. Plug reflector into the ballast. Make sure that the EC plug is firmly located in the female socket. Plug ballast into a mains outlet and switch on at mains.

ATTENTION

If the unit (ballast and reflector) fails to operate - LAMP NOT STRIKING - please follow this procedure:

1. Turn off the ballast at the mains and remove the plug from the wall socket.
2. Check that the wall socket is working by plugging in a known working device.
3. Check that lamp is screwed in tightly. Plugin and try again.
4. If it still fails to ignite, unplug the unit again and replace the lamp with a new one - preferably from a different manufacturer and switch on the ballast.

If the unit still fails to operate, return it to your retailer for a replacement.

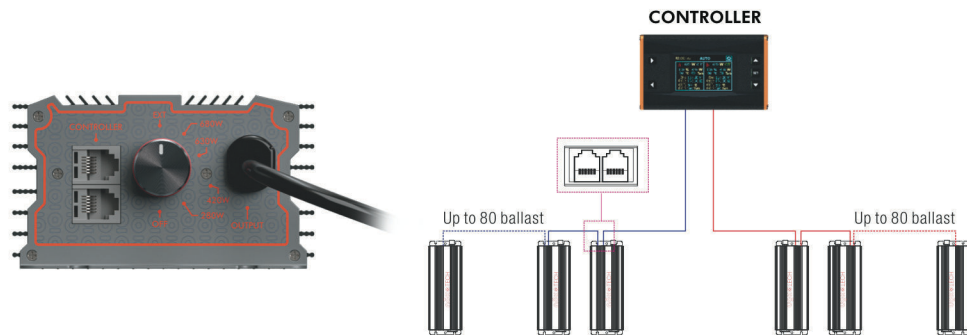
When routing the ballast' power cord, ensure that:

- The cord is not concealed or extended through a wall, floor, ceiling, or other parts of the building structure, such as above a suspended or dropped ceiling.
- The routed cord is not subject to strain, and is protected from physical damage.
- The cord is not permanently affixed to the building structure.

5.2 PRODUCT INSTALLATION

Connecting the ballasts with lighting fixtures to the external PWM controller

Connect controller (output) using RJ cable to ballast connector. Using the second RJ cable, connect the current ballasts to the next one. This way, you can connect up to 80 ballasts on one chain.



ATTENTION

- Always switch off the main voltage before connecting the ballasts and fixtures to the chain.
- The dimming button on all ballasts has to be adjusted to E.X.T.

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6. STORAGE, DISPOSAL & WARRANTY

You can store the ballast in a dry and clean environment, with an ambient temperature of 0°C to 45°C. The product must not be discarded as unsorted municipal waste. It must be collected separately for treatment, recovery, and environmentally sound disposal.

Warranty

NOKOTECH warrants the mechanical and electronic components of the product to be free of defects in material and workmanship if used under normal operating conditions for a period of two (2) years from the original date of purchase.

This Limited Product Warranty does not cover any damage due to: (a) transportation; (b) storage; (c) improper use; (d) failure to follow Product instructions; (e) modifications; (f) unauthorized repair; (g) normal wear and tear (including powder coat); (h) external causes such as accidents, abuse, or other actions or events beyond NOKOTECH's reasonable control.

If the product shows any defects within this period and that defect is not due to user error or improper use, we (if you bought from Nokotech Group Ltd) or another reseller you bought from, shall, at its discretion, either replace or repair the product using suitable new or reconditioned products or parts. In case it is decided to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e., two (2) years from the date of purchase of the original product. For service, return the product to the reseller/shop you bought from with the original sales receipt. For more information, visit www.nokotech.co.uk/warranty

Always check for the latest user manuals on our webpage www.nokotech.co.uk/support

Last edited: 11.09.2023



