

◆ PLEASE READ THESE INSTRUCTIONS FIRST BEFORE INSTALLATION

Congratulations on your purchase of the DigiStar Electronic ballast. We have done everything to insure a long life and safe operation, but the installation and use of the ballast is the responsibility of the user. Incorrect use or installation can lead to failure and damage to the ballast. Damage to the ballast and electronic circuitry as a result of incorrect installation and use revokes your warranty, so we recommend you read this manual carefully before installing your electronic ballast.

◆ Installation

Be sure to comply to local installation regulations.

Always install your electronic ballast **vertically**, so the air can rise through the cooling ribs for optimal cooling. Our ballasts do not get very hot at all but a cool ballast is a happy ballast!

Keep **distance** between your ballasts to insure a free air flow. Keep at least 5 cm distance between individual ballasts. Mount ballasts on a non-combustible material.

These ballasts are developed for indoor use only. Do not install your ballasts in a wet environment. Though the ballasts are sealed to prevent dust and humidity from entering the ballast we recommend to install this ballast in a dry environment at environment temperatures below 40° Celsius (104° Fahrenheit). If you install your ballasts in a closed cabinet make sure you have enough active cooling, with the air stream going up. We recommend active cooling on the bottom *air inlet* of your cabinet to ensure a cool air flow through your installation cabinet.

◆ Switching gear

We recommend to use two pole contactors. Be advised that all electronic ballasts have an inrush current so appropriate switching gear is recommended. Do not use household timers to switch electronic ballasts.

◆ Lamp connection, replacement and hot restrike

- Always install the lamp lead and lamp *before* connecting your ballast to mains.
- When connecting a lamp lead to a reflector make sure that the wire ends are tightly secured in their terminals and a strain relief is in place. For stranded wire always use *cable end sleeves*.
- Always connect the ground wire to the reflector if it is not a double insulated type.
- When changing the lamp first disconnect the ballast from mains by removing the 230 V plug.
- Never disconnect a lamp by pulling the lamp cord out of a live ballast..
- Allow a lamp to cool for 20-30 minutes before restarting (hot restrike).

◆ Preventing EMI and mains pollution

The DigiStar ballast is tested for EMI (Electro Magnetic Interference) and has met the highest standards. Incorrect installation however can cause unnecessary mains pollution and EMI. Therefore please follow these guidelines for correct wiring:

1. **Do not coil your excess wiring**, especially not for the lamp lead. Rather shorten your leads to the lamp to meet the required length.
2. **Mount your ballasts as close to your reflectors as possible**. The shorter the lead to the lamp the less chance of EMI.
3. **Keep your mains leads and lamp leads separated**. Keeping your mains leads and lamp leads in one bundle or running parallel can cause interference signals on the power grid and can cause damaging feedback in your ballast.

◆ Suitable lamps

The DigiStar ballasts have been designed and tested to drive High Pressure Sodium (HPS) and Metal Halide (MH) lamps from most A-brand manufacturers. However, due to the high output frequency of the ballast we recommend lamps that have been certified to work with high frequency ballasts to ensure a long life and optimal performance. Please consult our website for recommended models. **CMH (Ceramic Metal Halide) lamps can NOT be powered by high frequency ballasts, always check the lamp manufacturer's instructions!**

Our adjustable ballasts are suitable for a variety of lamp powers. The 600 watt model for example can drive a 600 watt HPS lamp at every output setting, but it can also power a 400 watt lamp at the 400W and 300W output settings. **Please make sure you have a suitable lamp installed before adjusting the ballast output to full power or the boost position.**

The lamp safety circuitry in the ballast is adjusted to the nominal power of the ballast. So a 600W ballast safety circuit will interrupt the output when a 600W lamp fails or is end of life.

◆ Adjusting your ballast output

Turn the switch to the desired output setting and start the lamp. You can also adjust the output power during operation of the lamp. **Be advised that per position it takes 60 seconds for the ballast to gradually change output level (soft dim).** Your eyes will not be able to register that gradual change, as they adapt to the changing light conditions. By all means use a light meter to check if you want to reassure yourself. This way of adjusting power is much better for the lamp. Depending on the ballast model the extra output boosts your lamp output by 10% (400 W → 440 W, 600 W → 660 W) or 15% (1000 W → 1150 W).

◆ Maintenance

There are no serviceable parts inside the ballast. Opening the ballast will void the warranty. The circuitry is secured with a resin to protect the individual parts. Keep the housing clean from dust and dirt with a dry or damp cloth to ensure optimal cooling. When using a damp cloth please disconnect the power first. We recommend you check your electrical connections regularly: check if the plugs are inserted completely and don't show any (contact) damage, check if the wiring is undamaged and that the wire ends connected to the reflector are tightly secured in their terminals. For stranded wire always use cable end sleeves.

◆ Warranty

GAVITA Holland warrants the mechanical and electronic components of this product to be free of defects in material and workmanship if used under normal operating conditions for a period of three (3) years from the original date of purchase. If the product shows any defects within this period and that defect is not due to user error or improper use GAVITA Holland shall, at its discretion, either replace or repair the product using suitable new or reconditioned products or parts. In case GAVITA Holland decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e. three (3) years from the date of purchase of the original product. For service return the ballast to your shop **with the original sales receipt.**

For more information about DigiStar ballasts visit our website www.gavita-holland.com