GAHP and GA Lines
Electronic Digital Display Controller (DDC)
Optional accessory

Robur’s DDC is available as an optional accessory. This device is capable of fully controlling and monitoring all versions of the Robur units with S-60, S-70, AR10 or W-10 control boards.

**Features**
- One Robur DDC can control up to 16 units working on a common hydronic loop or up to 48 units on a common loop when connected to two additional Robur DDCs.
- Programmable time scheduling.
- Monitoring of inlet and outlet water temperatures.
- Sequence step control of multiple units (Staging).
- Equalizes run time of individual modules.
- Visual and audible alarm for each module.
- Constant display of the system operating parameters.
- Logging and displaying of fault events.
- General fault and burner lockout signal for remote connection.

**Connection**
Cable used for the connecting of Chiller & Chiller-Heater Modules to the DDC controller as follows:

Maximum lengths listed above for cable run must include the cable length required to interconnect multiple unit configurations and the length of cable from the last unit to the location of the DDC. Some applications may require that the DDC cable be run in conduit. Check local codes for the equipment installation location.

**CABLE TYPE AND MODEL**

<table>
<thead>
<tr>
<th>CABLE TYPE AND MODEL</th>
<th>MAX DISTANCE COVERED (ft)</th>
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</thead>
<tbody>
<tr>
<td>Robur Netbus</td>
<td>1,475</td>
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<tr>
<td>Honeywell SDS 1620</td>
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<tr>
<td>BELDEN 3086A</td>
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<tr>
<td>TURCK type 530</td>
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<tr>
<td>DeviceNet Mid Cable</td>
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<tr>
<td>TURCK type 5711</td>
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<tr>
<td>Honeywell SDS 2022</td>
<td>656</td>
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<tr>
<td>TURCK type 531</td>
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**DDC Connection Schemes**
**Digital Display Controller DDC**

**DDC Wiring Example - Single unit**

**DDC Wiring Example - More than 1 unit**

**DDL Direct Digital Controller**
- **TR** Safety transformer 230/24 Vac - 60 Hz (>20 VA, not supplied)
- **GND/L/H** Signal parameters (common/high/low) of connector P8
- **J21** Jumpers for can-bus on DDC
- **TER** Electrical terminal box
- **J1** Jumper for can-bus on ECB S60
- **L/N** Line/Neutral (electrical supply)