

## EC600PC

### ADVANCED MARINE ELECTRONIC PROPULSION CONTROL SYSTEM

With the controller prewired to your QuickShift® transmission, the EC600PC is the simplest control system to install, eliminating the need for remote mounting, extra wiring and labor. Simply add a control head/station and you have a complete system to control your engine and transmission.



#### FEATURES

- EJS® and EPS ready
- Dynamic positioning (DP) integration ready
- Independent CAN station busses provide maximum redundancy and reliability
- Additional isolated CAN bus for communication between multiple EC600PCs
- Dual power inputs
- Computer-based setup and diagnostics
- Minimal manual setup required with SmartChip™ interface
- Interface for all electronically governed engines
- Throttle limit and clutch disable modes
- Fault/event logging with expanded data. In addition to faults/events logged in control memory, each transmission has a SmartChip™ which records service, operation and fault data
- Shaft brake control interface
- Stabilizer disable interface
- Station lockout and transfer options
- Operates with EC300 digital control heads
- RoHS compliant
- Suitable for up to six shaft lines and six control stations
- Type approvals and unit certification by major marine survey societies is available

#### APPLICATIONS

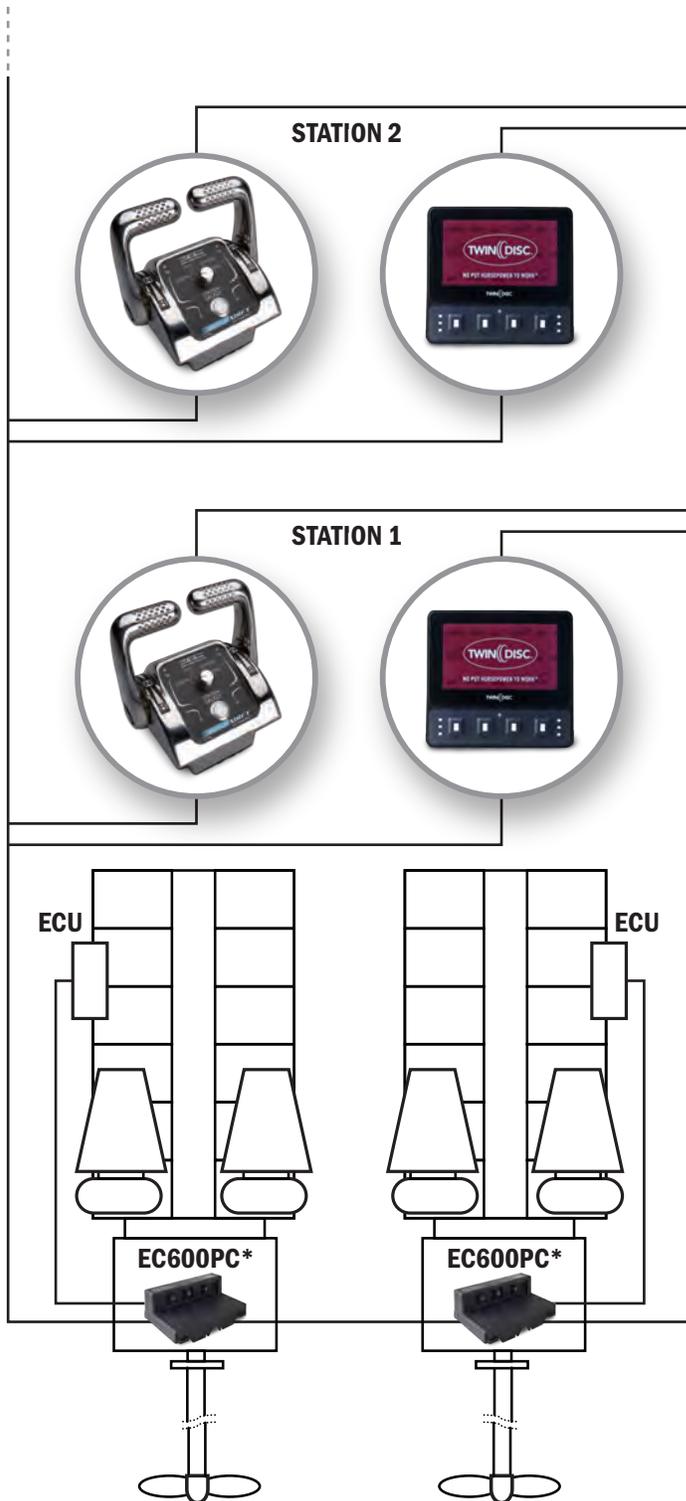
- Commercial vessels
- Military vessels
- Pleasure craft

#### EC600PC PROPULSION CONTROL SPECIFICATIONS

<b>Operating modes</b>	Cruise/Sync/Express/Troll
<b>Operating temperature</b>	-40° to +85° C
<b>Nominal operating voltage</b>	12-24 VDC nominal
<b>Communications</b>	SmartChip™ LIN interface, SAE J1939 programming and station data links, SAE J1939 and NMEA 2000 communication protocols
<b>Protection Class</b>	IP67



Joystick and display are optional equipment.



\* Transmission mounted

System example shows a non-redundant setup for a twin engine installation with two stations  
Consult Twin Disc Applications Engineering for more information.

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in our catalog. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.

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Since 1918, we've been putting horsepower to work by designing, engineering and manufacturing rugged-duty industrial products. Our products and our reputation are bolted to the most renowned engine manufacturers and equipment OEMs in the world. Our mission is to make boats, machines and off-highway vehicles more productive, more durable, more operator-friendly, and more cost-effective. From design and installation consultation through after-sale support, Twin Disc and its distributors are committed to your business. No one knows more about managing horsepower in more ways than Twin Disc.

TRANSMISSIONS

ELECTRONIC CONTROLS

EXPRESS JOYSTICK SYSTEM®

SAILDRIVES

EXPRESS POSITIONING®

ARNESON® SURFACE DRIVES

MARINE CONTROL DRIVES

ROLLA™ PROPELLERS

THRUSTERS

VETH PROPULSION SYSTEMS

STEERING SYSTEMS

RUDDERS

TRIM TABS

PUMP DRIVES

PTOS



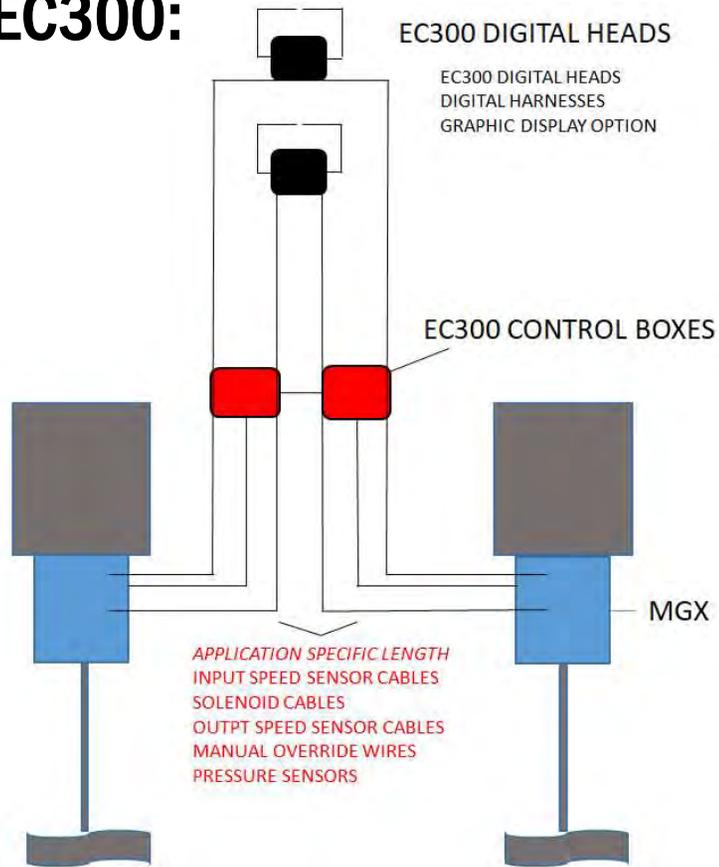
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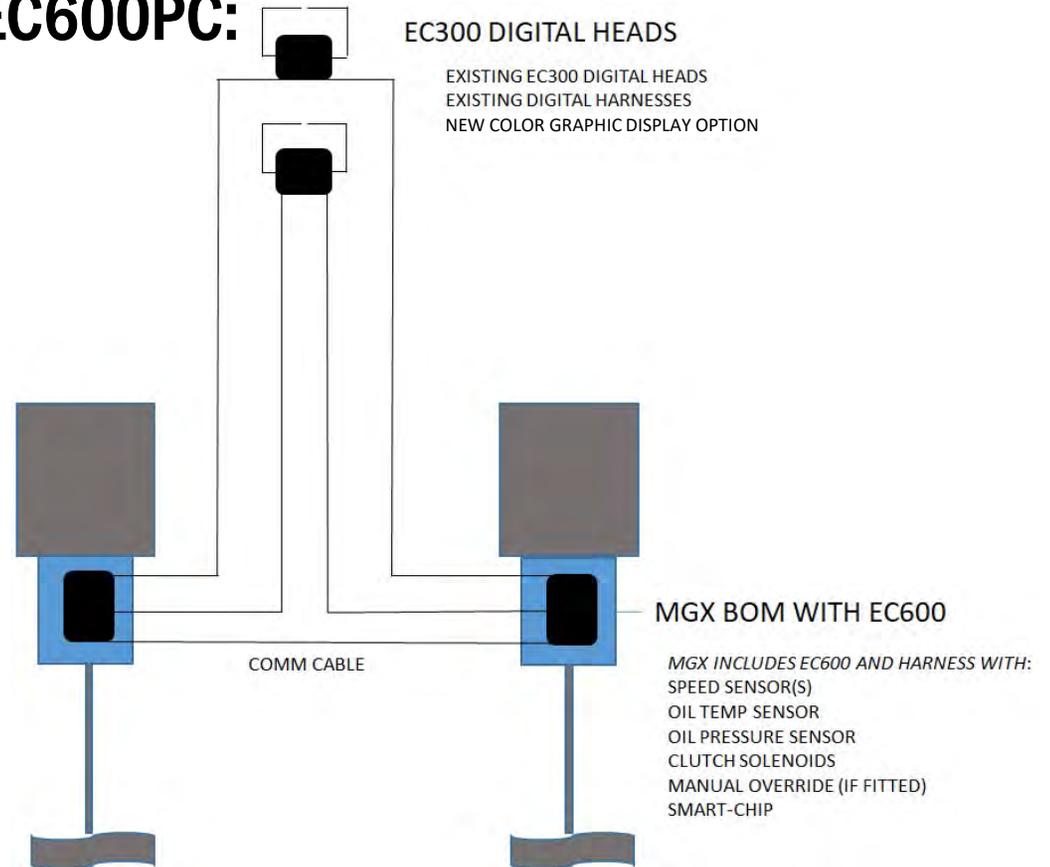
# EC300 VS. EC600PC



## EC300:



## EC600PC:



# EC600PC SYSTEM COMPONENTS



## DIGITAL CONTROL HEAD

(same as EC300, except that the term "EC300" will be removed from the overlays, part numbers will remain)



## SIMPLIFIED HARNESSSES

(all M12 connector / 1034915 Series)



## NEW 4.3" COLOR DISPLAY (OPTION)

# SMARTCHIP FEATURES



- **Memory chip embedded into cylinder**
- **Mounted to transmission**
- **At transmission test, the BOM, ratio, tooth counts etc. are stored in the SmartChip**
- **The SmartChip connects to the EC600PC to configure the EC600PC transmission parameters**
- **The SmartChip also maintains service information, stored on it via FST600**
- **Operating profile data is also recorded with EC600PC and stored on the SmartChip**
- **EC600PC replacement does not require any configuration, all needed data is stored on the SmartChip and loaded automatically into the new EC600PC.**

