

# CENTRAL SOFTWARE AND ACC-AGC COMMUNICATION MODULES ..

The ACC-COM-xxx module provides communications for ACC/AGC series controllers. It can be used to communicate with a remote computer via hardwire cable (ACC-COM-HWR), dial-up telephone (ACC-COM-POTS) or cellular phone (ACC-COM-GSM in North America, or – GSM-E for international). This module may be installed in wall mounted or pedestal mounted controllers.

## THEORY OF OPERATION

The Com module is a communications manager. It will contain the controller's unique identification (address), and enables communications into and out of the controller when combined with other devices. The Com module also coordinates communications between external devices and the ACC controller facepack.

The Com module may also communicate with other controllers, via optional RAD3 UHF radio modules (sold separately) with antenna for wireless communications, and/or an ACC-HWIM hardware interface module (sold separately) for hardwired communications over Hunter GCBL cable.

ACC-COM-POTS has dial-up communications ability built-in, but may also require the additional modules for outbound radio and/or hardwire connections with other controllers.

ACC-COM-GSM (-E) has cellular communications built-in, but requires a SIM card from the cellular provider, and may also require the additional ACC-HWIM and/or RAD3 modules for outbound radio and/or hardwire connections with other controllers.

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Any Com module combined with a RAD3 radio installation will respond to Maintenance Radio commands from a UHF portable radio, equipped with a DTMF keypad. ACC Com modules have no effect on ICR (or SRR) remote control. The ICR and SRR remotes will work directly with ACC, whether a Com module is installed, or not.

The ACC-COM-POTS enables dial-up telephone communications via standard analog telephone line. It can also enable either UHF radio communications, or hardwired cable communications, or both. The hardwire and radio options require other components to work. Each communications option has different physical requirements.

Dial-up Telephone: Plan ahead for routing a telephone line into the controller. ACC-COM-POTS accepts a standard 4-wire RJ-11 telephone jack, but should be located within

6 ft./2m of the telephone outlet. Many trouble calls are caused by exceeding the telephone wiring distance, and routing telephone wires near electrically noisy equipment (electric motors, fluorescent lighting, etc.). Dial-up installations must be located as close to the telephone connection as possible. All outdoor runs of telephone line connections should be installed in metal conduit to reduce interference.

Once an ACC controller is connected via telephone, it can share the communications connection with other controllers via radio and hardwire. The following considerations apply to these optional outbound connections.

## UHF RADIO

The Communication Module ACC-COM-HWR, ACC-COM-POTS, or the ACC-COM-GSM (E) does not contain a radio. It is designed for use with a Hunter RAD3 UHF radio, which must be ordered separately.

The RAD3 radio will require an antenna, which is also sold separately.

In steel enclosures, the antenna must be installed externally (signals will not communicate from inside a metal box).

- Plan ahead for mounting an external antenna. It will be necessary to route the antenna cable from the radio module inside the enclosure, to the antenna outside of the enclosure. A site survey with comparable radios is required before a final decision can be made about antenna types and placement.

In the plastic pedestal enclosure, the Hunter IMMS ANT 2 antenna is designed to be mounted in the pedestal lid and may be adequate for communications (to be determined in advance by site survey).

In North America and most other countries, a license is required before operating any radio transmission equipment. Verify your local regulations and make sure that you have obtained the proper licensing before operating radio equipment.