

AUTOSTART 705S, 710S, 720S and 730S Engine and Generator Controls June 1999 Enhancements



MI5410
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Section 75

1. Introduction

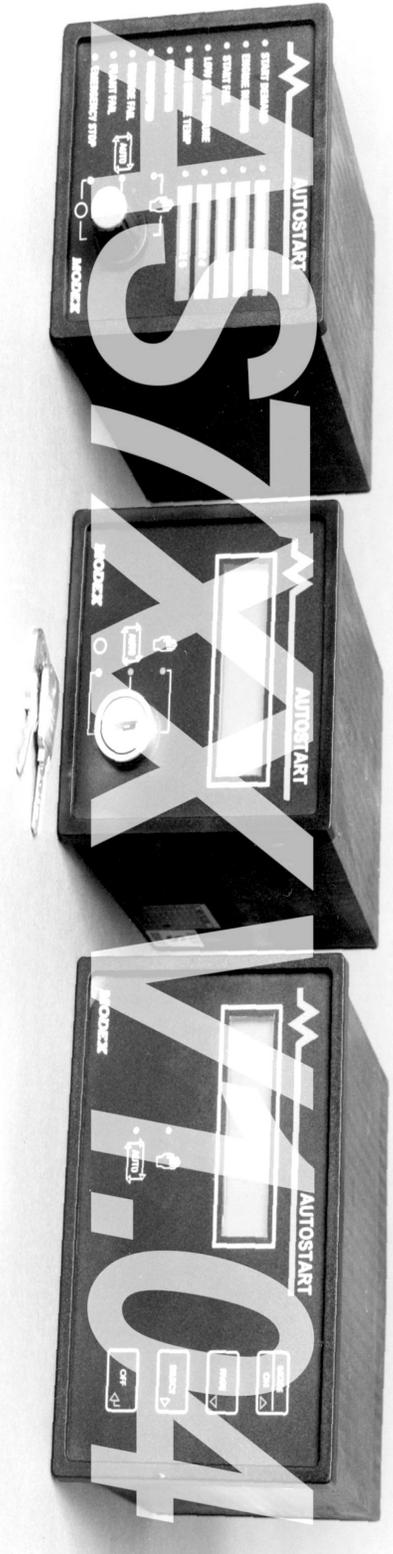
June 1999 sees the release of enhanced firmware and software for the whole Autostart range, AS705S, AS710S, AS720S and AS730S:-

- AS710, 720 and 730 units are upgraded from V1.03 to V1.04 firmware.
- AS705 units are upgraded from V0.07 to V1.00 firmware.
- New software model AS7CK, compatible with *all* the latest units in the Autostart range. This software enhances and replaces two previous software models AS7CG (for AS705) and AS7CE (for AS710, 720 and 730)

2. New Features

Enhancements to the Autostarts and PC software include:-

- **Engine speed overshoot on start-up** (all units).
Immediately after engine start up (during the 'speed signal' delay), Autostart can now be set to permit a pre-programmed speed overshoot. This overshoot is set as a percentage (0 to 25%) of the existing overspeed trip level.
- **A new programmable 'energised to stop' timer** (AS710S, 720S and 730S). Previously, any output pre-programmed to 'energised to stop' (fuel) would switch off 5 seconds after the engine speed fell to zero. This time is now adjustable between 5 and 59 seconds.
- **3, 2 or 1 phase operation** (AS720 and 730).
These units can now be configured for use with 3 phase and neutral, 2 phase and neutral or single phase monitoring of generator voltage and current (AS730) or mains voltage (AS720).
- **Local indication of remote communication.**
(AS710S, 720S and 730S) The Autostart's green Auto mode LED now flashes whenever PC communication/control is in progress.
- **Improved 'Remote Test' features** (AS710S, 720S and 730S):-
 - The PC software has a new monitoring screen function key (F9), used to trigger a remote test of the engine or generator.
 - A new, programmable 'remote test' timer. This allows the remote test to run for a pre-set time between 1 and 240 minutes, even after the communication link has been disconnected.
 - A new programmable output function, 'remote test on load'. This output activates for the duration of the remote test, and may be used to isolate the mains AC supply and trigger an ON LOAD test of the generator.
- **Revised oil pressure sender options**
(AS710S, 720S and 730S only). The 'VDO' analogue oil pressure measurement option is renamed 'VDO 7 Bar'. The 'BMI' oil sender option has been replaced with a new option, 'VDO 5 Bar'.
- **Revised Alarm and Klaxon inputs/outputs**
(all units). The programmable 'Klaxon' output is renamed 'Alarm (muteable)'; the 'Klaxon mute' input is renamed 'Alarm mute'.



3 Compatibility

Definition:-

- **Software:** the program that is loaded on to a PC or lap-top, and used by an operator to communicate with the Autostart.
- **Firmware:** the program that is loaded inside the Autostart (on a special memory chip), and used by the Autostart to direct the operation of it's microprocessor. Note: the firmware is NOT the same as the 'program profile' (which includes the settings relevant for each particular Autostart and engine/generator).

Software AS7CK is compatible with the firmware of **all** new and **most** older Autostarts. Before using the new software, check the firmware version of the Autostart being used.

AS710, 720 and 730 units

The firmware version (e.g. V0.08, V1.04) for these units can be simply checked by looking at the front facia display during power up.

Software AS7CK is **fully compatible** with the following Autostart models:-

Unit type	Firmware version
AS710	V1.04
AS720	V1.04
AS730	V1.04

Software AS7CK is **partly compatible** and will give limited operation with the following:-

Unit type	Firmware version
AS710	V1.00 through to V1.03
AS720	V1.03
AS730	V1.00 through to V1.03

AS7CK will communicate with these older units, but the units may not support some of the software's latest monitoring, programming and control features.

Software AS7CK is **not compatible** with the following:-

- older (pre-June 1998) AS730 units fitted with firmware versions V0.06, V0.07, V0.08 or V0.09. These older units require separate AS730 communication software (model number AS7CF V0.06, part number 76.70.0117).
- older (pre-June 1998) AS710 or AS720 units (firmware V0.12 or earlier). These units do not have any communications port at the rear, and cannot therefore communicate with a PC.

AS705 units

These units do not have a front facia LCD, and the firmware version of each AS705 is not explicitly detailed on the unit itself.

The AS705 has had several levels of firmware, which can be divided into 3 main group:-

a) V1.x firmware, post-June 1999

These units have serial numbers T20528 or higher and are fully compatible with the latest software AS7CK.

V1.x units have enhanced programmable features and a new communication protocol: the revised protocol means that these units are NOT compatible with older versions of AS705 programming software (part number AS7CG).

b) V0.0x firmware, Autumn 1997 to June 1999

These units have serial numbers with letter prefixes R, P or S, or lower than T20528.

PC software AS7CK will communicate with the older firmware V0.0x units (e.g. V0.07), using the old communication protocol, and with a reduced range of programming features appropriate to the older units.

c) older (pre-Autumn 1997) AS705 units

These units, with part numbers AS705S230, will not communicate with software AS7CK. These units require Autostart 711 programming software (model number AS7CH, part number 76.70.0118).

Further information: -

Document	Description
MS5258	AS705 sales bulletin and specification
MI5396	AS705 ready reference (installation) sheet
MS5259	AS710 sales bulletin and specification
MI5262	AS710 ready reference (installation) sheet
MS5260	AS720 sales bulletin and specification
MI5263	AS720 ready reference (installation) sheet
MS5261	AS730 sales bulletin and specification
MI5263	AS730 ready reference (installation) sheet
MI5265	AS7xx programming reference
M011206	AS710/720 hand-held programmer AS7PROG
MI5266	AS7xx PC communications and software

In order to consistently bring you the highest quality, full featured products, we reserve the right to change our specifications and designs at any time.



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