Autostart AS705S Automatic Engine/Generator Controller



Description

The AS705S provides fully automatic control, fault monitoring and shutdown of a standby generator, pump or engine driven application.

Features include:-

- Automatic or manual control, keyswitch or rotary switch selectable
- Status and fault indication by 17 LEDs. 12 have preset labelling, 5 may be custom programmed and labelled.
- Wide range power supply, 5 to 40 VDC.
- · Automatic, timed control of generator contactor.
- Electrical connection by two-part, screw terminal blocks.
- Tamper proof settings. Timers, I/O and control options are set using a PC serial link and free of charge software.
- · Compact, front of panel mounting

Application

The Autostart series may be used in any unmanned application where automatic engine starting and stopping is required. The AS705's control, measurement and display features allow it to be used in place of multiple control units, trip relays and indicating gauges, and at a fraction of the cost.

For further details, please contact your Murphy representative, or visit www.fwmurphy.co.uk/as7xx

Warranty

A two year limited warranty on materials and workmanship is given with this Murphy product. Details are available on request and at www.fwmurphy.co.uk/warranty.



- Automatic or manual engine and generator control
- LED indication of status/faults
- Custom LEDs and labelling
- Programmable timers, inputs, outputs and control options

Product specification

Product specification	
Power supply:	
operating voltage: steady state rai crank brown-ou	
current consumption	typically 150 mA
Inputs:	
DC inputs (inputs 1 - 5, rem. star positive input voltage range negative input voltage range	t): 80% to 100% of positive DC -1V to +2V w.r.t. negative DC
generator AC input: operating voltage range frequency measurement range	90 – 300 V AC rms single phase 0 – 99 Hz.
magnetic pickup: operating voltage range frequency measurement range	7 – 80 V AC rms 0 – 10 kHz
Outputs:	(all ratings for resistive load)
start and fuel relays	positive DC (switched relay) 16A max. @ 24 V DC
programmable outputs 1 – 3	negative DC (semiconductor) 250mA max. @ 33 V DC
programmable output 4	negative DC (switched relay) 5A max. @ 24 V DC
programmable output 5 (default setting: common alarm)	postive DC (switched relay) 5A max. @ 24 V DC
programmable output 6 (default setting: gen. contactor)	volt free SPNO relay 5A max. @ 240 V AC
auto & manual outputs	positive DC (switch), 250 mA max.
off/reset output	negative DC, 250 mA max.
General:	
overall dimensions (W x H x D)	96 x 96 x 162 mm
panel cut-out size	DIN standard 92 x 92 mm
weight	approx. 650 g
operating ambient temperature	−10 to +55 °C

Front facia



LED indicators:-

- Preset x 10
- Programmable x 5
- Auto mode x 1
 Manual mode x 1

Custom label sheet

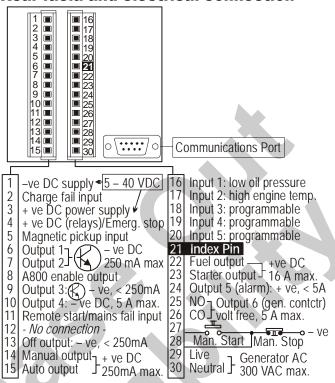
3 position operating mode switch (keyswitch shown):-

Off/reset

Auto

Manual

Rear facia and electrical connection



How to order

stock code model / description

76.70.0065 AS705SKD, keyswitch, 230VAC 76.70.0037 AS705SRD, rotary switch, 230VAC

Programming accessories:-

76.70.0018 AS7CA, 9 to 9 way local comms lead 76.70.0019 AS7CB, 9 to 25 way local comms lead

76.70.0020 AS7CC, local comms interface

76.70.0203 AS7CK, PC program and monitor software

for AS7xx series.

Also available for free of charge download from: www.fwmurphy.co.uk/download

Program options:

The AS705 is programmed using PC software model AS7CK, available for free of charge website download. During setup, AS705 and PC are connected by local serial link (using the accessories listed left). Over 50 programmable functions allow custom set-up for your application:-

Timers: start delay, preheat, crank, crank rest, no. of start attempts, alarm override, engine warmup, speed signal, (mains AC) restoration, cooldown, (fuel) energised to stop.

Inputs: input 1 – 5 configuration (open/close/+ve/-ve); input 3 – 5 actions (shutdown, warning, indication, load release, lamp test, manual restore, test, alarm mute, load reset)

Outputs: 6 outputs, each set for one of 40 signalling and control options, e.g. preheat, energised to stop fuel, engine running, muteable alarm, individual faults, etc.

Generator: trip Hz/RPM levels and response for crank release, underspeed, overspeed, speed overshoot on start.

DC: high and low battery voltage warning, charge fail settings (charge alternator WL or battery charger), WL crank release.

LEDs: allows programming of the LED indicators (including the 5 with custom message windows).

See document mi5265 for a full list of program options. Software AS7CK also features real time monitoring and display of engine parameters – see document mi5266 for full details.

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