

"Emergency and production generating set management"



The latest addition to the SDMO APM command/control range, the APM303, opts for simplicity and places the focus on communication. The APM303 unit is integrated as standard on generating sets designed for LV industrial applications. It meets the requirements of professionals in terms of generating set operation and enables simple control.

In the event of a grid outage, the changeover switch supplies the grid outage signal to the APM303 unit, which automatically starts up the generating set. Once the changeover switch has switched, the installation is supplied by the generating set.

This option applies to all of our Power Products generating sets up to 44kVA.

- **Operation**

The intuitive interface simplifies the generating set user's experience

- **Operation mode**

Manual mode: manual start-up and stoppage by the user

Automatic mode: automatic start-up and stoppage via external order

- **Measurements**

Phase-to-neutral or phase-to-phase voltages, active power current, apparent power, power factors, kW/h energy meter, fuel level, oil pressure, coolant temperature

- **Supervision**

Modbus RTU communication via RS485

- **Reports**

2 configurable reports

- **Safety features**

Overspeed, oil pressure

Coolant temperatures

Maximum and minimum voltage

Maximum and minimum frequency

Maximum current

Maximum active power

Phase rotation direction

- **Traceability**

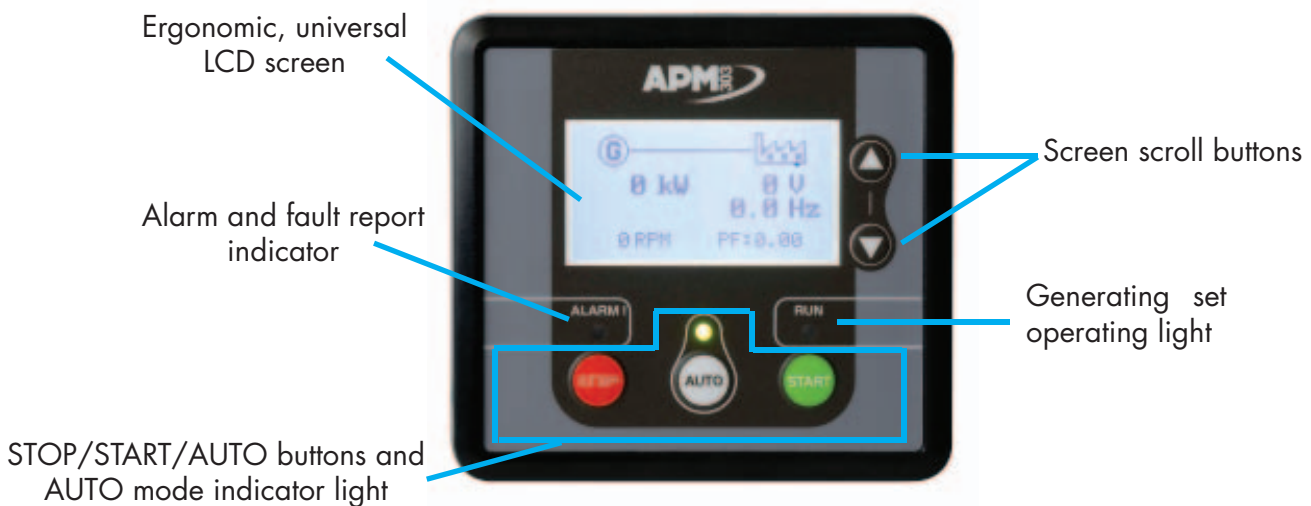
Stack of 12 memorised events

- **Neutral speed**

Compatible with all neutral systems

- **Training**

Self-training resource





APM303

Command/control



TECHNICAL DATA

| OPERATION CONDITIONS | |
|---|--|
| IP54 command/control on the front panel | |
| Electronics protected against dust and humidity with tropicalised varnish | |
| Designed, tested and CE qualified for use in harsh industrial environments | |
| Operating temperature | - 20°C / + 70°C |
| Storage temperature | - 20°C / + 70°C |
| Relative humidity | 95% @ 45°C without condensation |
| Altitude | 2000m max |
| ELECTRICAL MEASUREMENTS | |
| Nominal frequency | 50Hz / 60Hz |
| Nominal voltage range | 100 to 480 VAC phase / phase |
| Nominal current range | $I_n = 5A$ (CT secondary) |
| Thermal overload | 1.2 I_n 5 I_n (10 seconds) |
| CT (current transformer) ratio | 1000 maximum |
| SETTINGS | |
| Timing setting parameters | |
| Protection setting parameters | |
| RS485 communication setting parameters | |
| CUSTOMER REPORTS AND INPUTS | |
| One dry contact automatic starting order input (remote start) | |
| Two of the following configurable outputs: alarm and fault report, fault report, alarm report, low fuel level, genset on load | |
| VIBRATION | |
| 3g from 5 to 500Hz | |
| EMC | |
| Electromagnetic compatibility directive | 2004/108/CE dated 15 December 2004 - Class A |
| SAFETY | |
| Low voltage directive | 2006/95/CE dated 12 December 2006 |
| Pollution degree | 2 |





APM303

Command/control

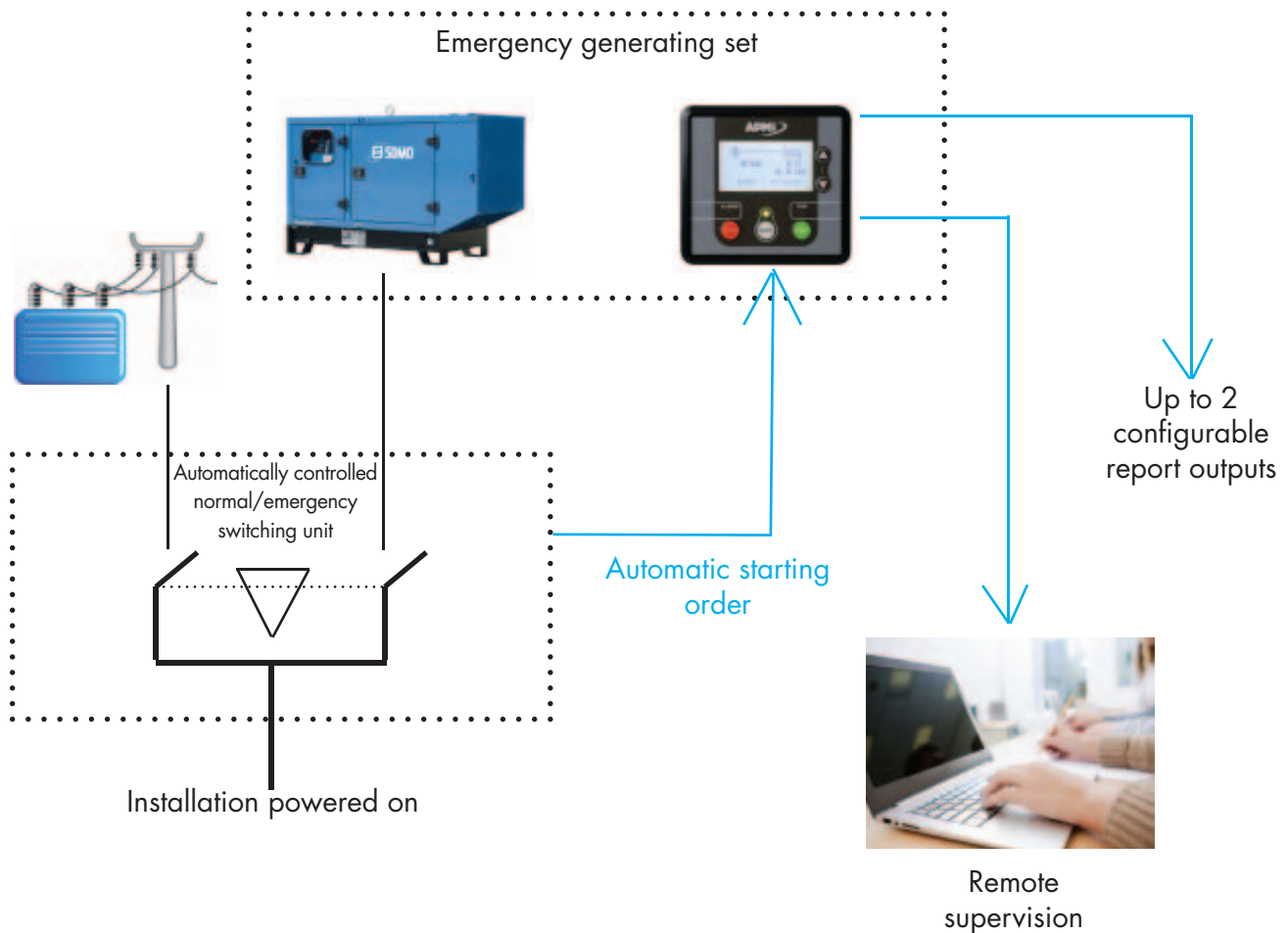


APPLICATIONS (2 usage options)

No. 1 Generating set with starting by user or automatic via external order (Remote start)

No. 2 Installation emergency generating set with automatic starting following grid outage. This application also requires the installation of an automatically controlled changeover switch.

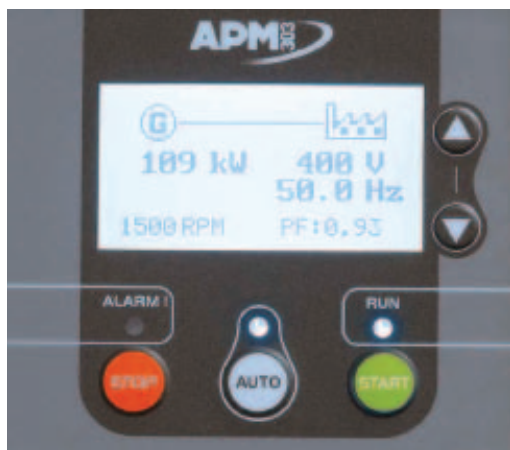
APPLICATION DIAGRAM FOR SITUATION NO. 2



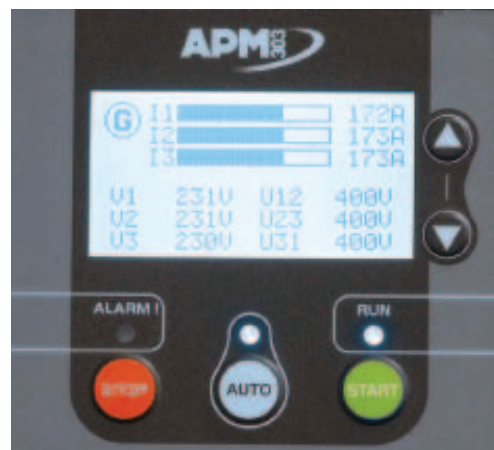
OPTION DETAILS

To facilitate the transition between the Nexys and the APM303, SDMO offers an APM303 kit to replace a Nexys.

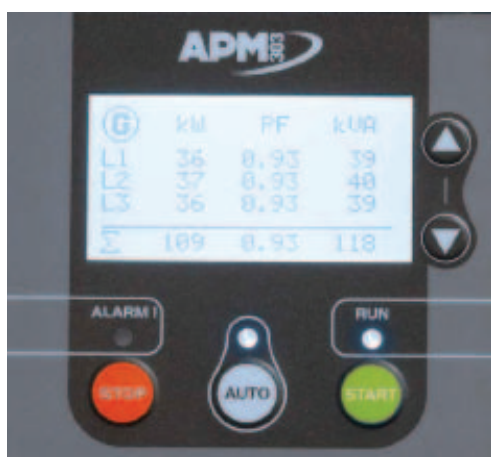
Screenshots



Main display



Current and voltage



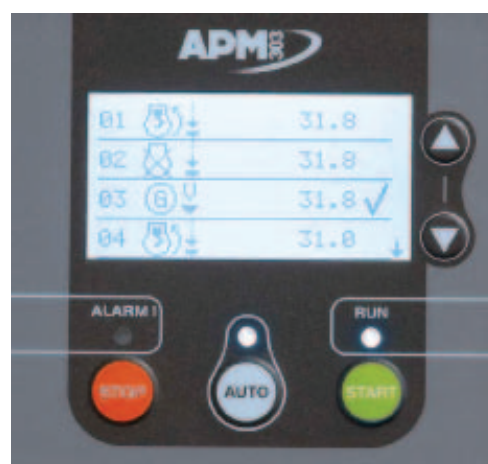
Powers



Mechanical measurements
(°C or °F, bar or psi)



Meters



12 events and faults