



DST4602 Evolution

Take a closer look and discover the **DST4602 Evolution**, Highly Advanced Parallel controller with large full colour display.



DST4602 Evolution

Highly Advanced Parallel controller with large full colour display. Capability is guaranteed with the large PLC and extensive input and output specification. Monitoring of Co-generation (CHP) equipment can be achieved with ease, as can complex multiple parallel applications.

The no compromise design has a robust metal case and includes the option of secure key-switch or pushbutton control. Available as either a single box "compact" version or two box "SCM" + "HMI" version, makes the DST4602 Evolution a controller of choice when customer requirements need to be accommodated.

- 7" Colour TFT display
- Available as either a single box "compact" version or two box "SCM" + "HMI" version
- Metal casing
- Expandable I/O with dedicated expansion Can-bus
- Remote display option
- Option of Key-switch control or pushbutton control
- D-Pro protection relay Can-bus connection

Fully supports TIER 4 Final (US) and STAGE V (EU) directives for generator emissions



20 Digital inputs
(expandable +160)



16 Digital outputs
(2 x 4 A, 2 x 10 A c/o,
8 x 350 mA [-], 2 x 1 A, 2 x 2.5 A),
(expandable +160)



5 Analogue inputs
D+ terminal and MPU
(expandable +48)



2 Analogue outputs
+/-20 mA or +/-20 V
for speed and voltage control
(expandable +32)



AND/OR
logic control



860 Event history log
with 860 record data-log



USB



RS232



RS485



Ethernet connection



16/6 Calendars/timers



PLC Logic control
(128 Kb PLC memory
and 1024 bytes RAM)

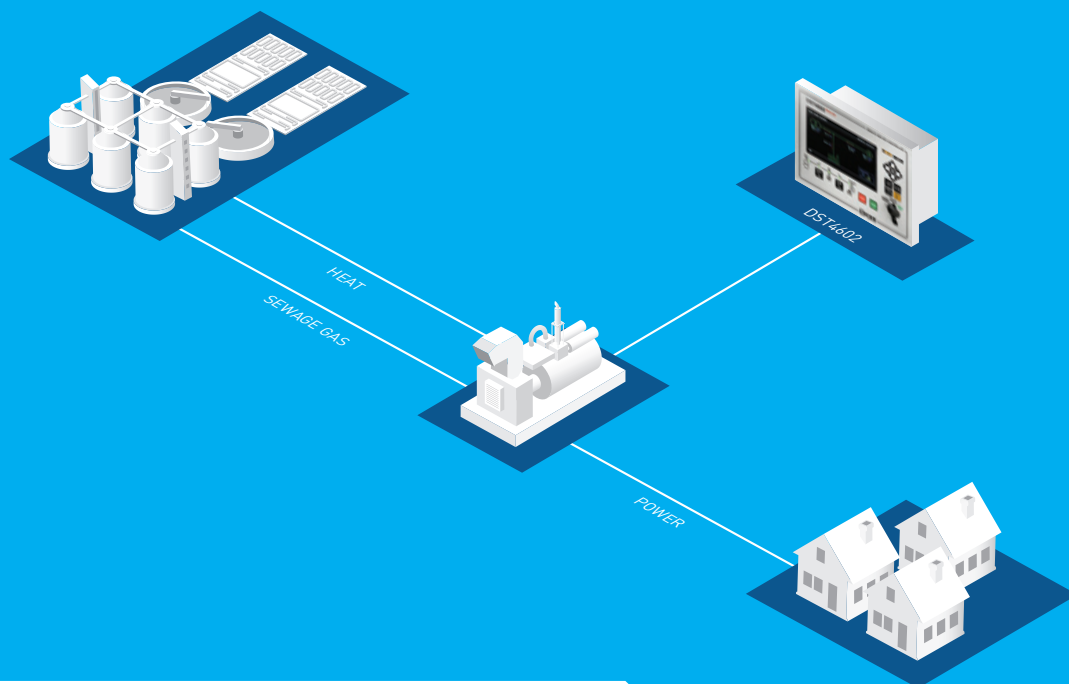


AFR
(Lambda)



Stage V





Features

DST4602 Evolution are highly configurable genset controllers for advanced parallel applications. They allow to connect up to 31 gensets on the same bus working in island mode, and even the control of gensets running in parallel with the mains.

Thanks to the versatility of the controllers and the built-in PLC functions with powerful PID blocks and mathematical functions, DST4602 Evolution is also well suited for CHP power plants. The controller also features fully integrated Air-Fuel Ratio (AFR) control, furthering its ability for such applications.

The DST4602 Evolution is fully supported with internal Load Sharing, Synchronizer and VAR regulation. DST4602 Evolution includes a CAN J1939 interface used by a wide range of engines and they can be also used with standard and traditional engines, whose measurements are performed by the analogue inputs.

DST4602 Evolution can be used to parallel with other SICES controllers such as the GC 600, GC 400, MC 200, BTB 200 and RN 200. In case of multiple gensets in parallel with the mains is required, DST4602 Evolution can be interfaced with the controller MC 200. Parameters are programmed using the free software tool (BoardPRG), which can be freely downloaded thorough SICES website.

It is also possible to set parameters directly by the controller keyboard. DST4602 Evolution has a hi-resolution and impressive 7" colour display. Optionally, for demanding applications, consider also using D-MONITOR, a 12" touch panel an ideal solution for cogeneration (CHP) plants. In addition, in case of complex plants such as Oil & Gas stations or MV installations, the inbuilt protections can be increased by using an external protection relay called D-PRO, expanding the functions already included into the controllers.

Technical details

- Supply voltage: 8–33 VDC
- Power consumption: typically less than 7 W (+5 W for display lamp)
- Rated Gen-set frequency: 50 or 60 Hz
- Digital Input: opto-isolated
- Static Output: 500 mA @ 25 °C, 360 mA @ 50 °C, 20 Apk

- Relay Outputs: 10 A nominal
- Auxiliary relays Output: 1 A 30 V
- DST4602 Evolution is equipped with a dual processor for improved response
- Weight: 1.6 kg

Additional Technical details on the next page.



DST4602 in Action

TRANS ADRIATIC PIPELINE

Greece, Albania, Italy

Once built, TAP will offer a direct and cost-effective transportation route opening up the vital Southern Gas Corridor, a 3,500 – Kilometre long gas value chain stretching from the Caspian Sea to Europe.

With an initial capacity to transport 10 billion cubic metres (350 billion cubic feet) of natural gas per year, the project is intended to help Europe meet its clean energy requirements in future years.

SICES designed, manufactured the control panels and distribution panels for the 12 Emergency Diesel Generators for the pumping gas station, each with a remote control panel and an additional control panel with distribution panel + remote panel for Gas powered generator in CHP plant. The system is equipped with a total 13 off DST4602 Evolution advanced multiple paralleling genset controllers, 4 off D-Pro protection relays, 1 off D-Monitor 15" touch screen controller, 17 battery chargers and wide range of expansion modules.



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Technical details

- Protection Grade: IP54 (front panel, by means of additional keylock protective cap and gasket)
- EMC: compliant with EN61326-1
- Safety: built in compliance with EN61010-1
- DISPLAY Features: DST4602 Evolution 800 × 450 Pixel TFT, 7" Colour display
- Operating temperature: -20 °C to 70 °C
- Storage temperature: -30 °C to 80 °C

Compact size:

- Overall dimension: 260 (W) × 202 (H) × 86 (D) mm
- Overall dimension display: 125 (L) × 72 (H) mm
- Panel cut-out: 240 (L) × 172 (H) mm
- Panel mounting: by means of stud-bolt

SCM and HMI size:

- DST4602 Remote (HMI) 260 (W) × 202 (H) × 33 (D) mm
- SCM 260 (W) × 202 (H) × 86 (D) mm
- Panel cut-out: 240 (W) × 172 (H) mm

