

## CONTROLLER FOR SOLAR PANEL INSTALLATIONS

# DPS 638

**C ← BUS**



### APPLICATION

Designed for automation of solar panel installations with a maximum of three storage tanks with On-Off control of integration circuit and modulating control of DHW distribution circuit.

**C-Bus compatible.**

**C-Ring compatible.**

**Essential detectors: 1 solar panel temperature detector; from 1 to 3 storage tank detectors.**

**Optional detectors: 1 integration temperature detector, 1 DHW temperature detector.**

### Features

- Power supply: 230 V ~; Consumption: 5VA; DIN 105 x 115 modular enclosure; Protection: IP 40.
- Digital programming by means of four operating keys and alphanumeric display.
- Setting dates of heating season and automatic switching GMT - BST.
- Seven 24-hour programmes, two 7-day programmes, 25 holiday periods and one special period with date setting.
- Management of heat exchange between solar panels and storage tanks (max. three) in relation to temperature differential with control panels circuit pump and automatic switching between three storage tanks.
- Control of integration circuit temperature by programmed events On-Off control and antibacterial function.
- Regulation of temperature by modulating three-wire control of DHW distribution temperature or of minimum solar panels temperature.
- 3 On-Off inputs for alarms or status.
- Alarm functioning of plant and alarms for closed or open detector circuits.

Code	Description	Data Sheet
DPS 638	Controller for solar panel installations.	–

### SENSORS AND ACCESSORIES

Code	Description	Application range	Sensing element	Data Sheet
SIH 010	Immersion temperature sensors (1/2" x 80 mm)	0 ... 99 °C	NTC 10 kΩ	N 140
SAF 010	Cable-type sensor	0 ... 99 °C	NTC 10 kΩ	N 145
SHF 001	Cable-type temperature sensor (primary flow & return)	0 ... 180 °C	Pt 1 kΩ	N 145
GIS 090	Cable-type sensor pocket (1/2" x 90 mm)	–	–	N 145
GIS 160	Cable-type sensor pocket (1/2" x 160 mm)	–	–	N 145
GIS 500	Cable-type sensor pocket (1/2" x 500 mm)	–	–	N 145