



SPRECON[®]-E-P

Protection Devices



PROTECTION DEVICES

The protection of equipment and the guarantee of supply reliability are among the central tasks of protective devices. They ensure that faults in the grid are quickly cleared and that all consumers continuously supplied with power with as few interruptions as possible.

At Sprecher Automation you will find the ideal device for every application – from simple motor

protection to protective devices for decentralised feeders, neutral points and large transformers up to line protection for high-voltage lines.

Our devices are used by a wide range of customers (power utilities, industry, infrastructure) and in practically all voltage levels.



**Transformer Differential Protection
with Integrated Voltage Regulation**

SPRECON-E-P DQ6

Digital Substation

SPRECON-E-SAMU, SPRECON I/O BOX,
SPRECON-E-P DD6

MORE THAN A PROTECTION DEVICE

At Sprecher Automation, “flexibility” is not just an empty slogan, quite the contrary. Our protective devices are modular and can therefore be combined almost infinitely. You benefit from three different case sizes and a wide range of options for equipping.

These are just a few examples:

- With an almost unlimited number of digital inputs and outputs, you can effortlessly control the most complex systems – with a very high packing density and thus less space requirement.
- For transformer differential protection, an instrument transformer module also enables a voltage regulator and PT100 temperature monitoring.

- An additional analogue output module turns a DTOC protection device into a $\cos \varphi$ or reactive power controller for photovoltaic systems or wind parks.

This enables you to react optimally to new challenges, e.g. in the medium-voltage grid – keyword “decentralised feeders”:

- System protection: UFLS, RoCoF, QU<
- Earth fault indication for various cases – meshed grids, cable networks (re-ignition fault) etc.

Protection with Low Power Instrument Transformer

SPRECON-E-P DS6-X-L



Line Differential Protection

SPRECON-E-P DL6

Overcurrent Protection with Earth Fault Direction Indication

SPRECON-E-P DS6

Line Protection & Bay Control

SPRECON-E-P DD6

OUR OFFER

Our devices protect

- Motors, transformers, neutral points
- Cables, overhead lines
- Busbars
- Supply grids

THE RIGHT DEVICE FOR EVERY PURPOSE

- **DTOC protection device** SPRECON-E-P DS6
- **Dual-powered DTOC protection device** SPRECON-E-P DSZW4
- **Distance protection device** SPRECON-E-P DD6
- **Line differential protection device** SPRECON-E-P DL6
- **Transformer differential protection device** SPRECON-E-P DQ6
- **Transformer differential protection device with protection interface** SPRECON-E-P D3Qpi6
- **Earth fault and short circuit indication device** SPRECON-EDIR



Monitor – Control – Protect
SPRECON-EDIR

Compact Overcurrent Protection
SPRECON-E-P DS6



THAT BIT EXTRA



*Backup
on the SD card*

AUTOMATIC RECOVERY

Our protective devices are equipped with an SD card on which the parameterisation and firmware are stored in encrypted form. If a device needs to be replaced, you can do this quickly and without additional tools. Remove the memory card, insert it into the new device – done! Protection is guaranteed again without any loss of data.

IP-BASED PROTECTION INTERFACE

Via the protection interface developed and patented by Sprecher Automation – based on Ethernet technology – you can, for example, commission your line differential protection from only one side, read out values or even test the protection devices after (firmware) updates. This saves time and you can deploy your personnel efficiently. By the way: You can use your existing Ethernet-based site network for the protection interface!

EARTH FAULT INDICATION FROM THE TECHNOLOGY LEADER

Our experienced experts know: Not all earth faults are the same. Many different parameters (e.g: neutral point treatment, grid shape, cable / overhead line, grid expansion, type of fault, ...) influence with which of our patented and proven algorithms we “answer” (SPRECON-EDIR with qu2, qui2, complex pulse method, ...) in order to quickly detect the fault. We will be happy to advise you!



*Certified to
ISO 27001*

CERTIFIED SECURITY

Our protection devices – like all our products for power system automation – are optimally equipped in terms of IT security. We follow a strict Defence-in-Depth principle and thus fulfil requirements such as those of the BDEW white paper. Furthermore, Sprecher Automation is certified according to ISO 27001 with all company processes. This guarantees you the greatest possible security – especially if you are active in the field of critical infrastructures.

WE ARE THE EXPERTS. FULL STOP.

Did you know that at Sprecher Automation we have our own Competence Center for Protection (CCP)? Our experts with their many years of experience from many different projects are ready to assist you quickly and actively – with advice and problem-solving, by phone, e-mail or even on site at your plant.

GIVE US A CALL OR SEND US AN E-MAIL!

Together we will find exactly the solution that best suits your requirements.

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