



## Power Quality and Measurements

# SIPROTEC 7KE85

## Fault Recorder

| Device  | Fault Recorder SIMEAS R 7KE6   | Fault Recorder SIPROTEC 7KE85  |
|---|--|--|
|   |  |              |
| Main Function   | Fault Recorder   | Fault Recorder   |
| Display (without / with)                                | -  | -/●  |
| Housing (Width x Height x Depth in mm)                  | 223 (445) x 266 x 300  | 145 (445) x 268 x 229  |
| Mounting  | flush-mounting, surface-mounting, detached panel                                   | flush-mounting, surface-mounting, detached panel   |
| Configuration and Online View                           | SIMEAS R PAR (Part of SICAM PQS)   | DIGSI 5  |
| Data Analysis and Reporting                             | SICAM PQS / SICAM PQ Analyzer / SIGRA  | SICAM PQS / SICAM PQ Analyzer / SIGRA  |
| Basic Measurement                                       | V, C, f, P, Q, S Energy, Phase angle, cos φ  | ●  |
| Accuracy % (V / C)                                      | 0,25 / 0,5   | 0,1 / 0,1  |
| Programmable limit values                               | ●  | ●  |
| Harmonics   | Recording  | 50.  |
|   | According IEC 61000-4-7  | -  |
| Mean values   | ●  | ●  |
| Power Quality IEC 61000-4-30                            | -  | Class S**  |
| EN 50160 Power Quality Data                             | ●  | ●  |
| Flicker IEC 61000-4-15                                  | ●  | ●  |
| Fault recording   | ●  | ●  |
| Sampling rate   | 12,8 kHz (fix)   | 16 kHz (1 / 2 / 4 / 8 / 16 adjustable)   |
|   | Samples per cycle  | 256  |
| Recorders   | Fast-Scan / Slow-Scan / Continuous Recorder / PQ Recorder / SOE                    | Fast-Scan / Slow-Scan / Continuous / Trend Recorder / Power Quality recordings (functions) / SOE |
| Recording times   | FSR - 1 s / 30 s, SSR - 60 s / 25 min (15 min)                                     | FSR - 3 s / 90 s, SSR - 90 s / 90 min  |
| Trigger   | Level- / Gradient- / Binary- / Network- / Local Trigger / Logical-Trigger / ...    | Level- / Gradient- / Goose- / Binary- / Manual- / Logical-Trigger / ...                          |
| Notification / Limit Violation                          | ●  | ●  |
| Mass storage  | 512 MB   | 16 GB  |
| Inputs / Outputs  | AC analog inputs (V / C)   | 8 - 32   |
|   | Binary outputs   | 4  |
|   | Binary inputs  | 16 - 64 (32 - 128 only fitted with BDAU)   |
|   | DC analog inputs   | 8 - 32 (+/- 20 mA / +/- 10 V / +/- 1V)   |
| Time synchronization                                    | IRIG - B / DCF77 only via SIMEAS Sync-Box  | IRIG - B / DCF77 / SNTP / IEEE 1588  |
| Second source for time synchronization                  | -  | ●  |
| Communication   | Serial / USB (front)   | ●/-  |
|   | Ethernet   | proprietary protocol   |
| Recording of GOOSE messages                             | -  | ●  |
| LED Indication of binary status / GOOSE messages status | -  | ●  |
| LED Indication of operating information                 | ● (predefined information)   | ●  |
| PMU according IEEE C37.118                              | ● (release 2005)   | ● (release 2011)   |
| Data Format   | Fault Record Data  | proprietary (via SICAM PQS)  |
|   | PQ-, Historical Data   | proprietary (via SICAM PQS)  |
|   |  | COMTRADE (DIGSI 5 / SICAM PQS, IEC 61850)  |
|   |  | PQDIF (SICAM PQS, IEC 61850)   |

**Please contact us for an individual consultation. We are looking forward to your request!**

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Comparison–Fault-Recorder-7KE6\_7KE85.pdf

For all products using security features of OpenSSL the following shall apply:

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit ([www.openssl.org](http://www.openssl.org)).

This product includes cryptographic software written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)).