Multi-energy metering (electricity, water, gas, etc.)
LV/MV/HV network monitoring
Energy quality
Functions

Simple, intuitive and customizable interface for quick access to the information that you need.

Real-time display
of instantaneous, average, min and max values.

Time/date-stamped recording
of min and max values

Alarms
- 16 programmable alarms on instantaneous, average, min and max values, as well as analogue and on-off inputs (e.g. circuit-breaker status)
- Recording of the last 64 events (values, dates, times, durations)
- Flashing display if there is an alarm

Graphics for easier data analysis

- Checking of connections, unbalance measurement and display of phase shift
- Monitoring of load factor (display of V, U, I and P)

Indication of connection errors
before operation begins

Validation
and navigation keys
via drop-down menus
Preventive maintenance
- Installation operating time
- Operating time of monitored equipment

Quick programming
- Current transformer ratios and communication parameters can be set on the front panel or remotely
- Possibility of protection by password

Recording
- Indices, consumption curves (electricity, water, gas, etc.) and temperature curves
- Critical parameters with triggering according to 3 different modes (date, alarm, on-off input) and possibility of pre/post trigger

Customizable screens
- 3 screens with 4 display lines each to organize the information as you wish

Harmonic analysis
- Measurement of THD per phase on U, I and In
- Spectral analysis per phase up to the 50th order on U, I and In

Qualimetry
- Statistical analysis graphs as per EN50160
- Log of the last 1024 events (dips, outages, overvoltages, overcurrents)
- Waveform capture (V-U-I-In)

Local access via USB cable/ optical head for:
- programming
- reading the data
- upgrading the firmware
Multiple applications

In addition to the generic functions of power monitors, the ENERIUM range also offers extensive, customizable communication functions.

- **ANALOGUE INPUTS**
  - insolation, weather data, temperatures, etc.

- **METERING INPUTS**
  - water, gas, electricity

- **CURRENT AND VOLTAGE INPUTS – LV/MV/HV NETWORKS**

- **ANALOGUE OUTPUTS**

- **ALARM RELAY OUTPUTS**
PLCs FOR CTM/TBM SUPERVISION

SYNCHRO PULSE INPUTS

STORAGE OF STATUSES AND ALARMS

E.ONLINE® ENERGY MANAGEMENT SOFTWARE

PLC OUTPUTS (ALARM/PULSE)

Inputs
Communication
Outputs
Choose your power monitor

ENERIUM®, THE TECHNOLOGICAL REFERENCE for everything from basic applications (secondary switchboard, load monitoring) to the most demanding tasks (metering station).

### Functional specifications

<table>
<thead>
<tr>
<th></th>
<th>ELECTRICAL ENERGY</th>
<th>MULTI-ENERGY</th>
<th>QUALIMETRY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accuracy class (IEC61557-12)</strong></td>
<td>1</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>96 x 96 mm</td>
<td>96 x 96 mm</td>
<td>96 x 96 mm</td>
</tr>
<tr>
<td><strong>Graphic LCD screen</strong></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Version without display</strong></td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Flush-mounted, DIN rail* or plate-mounted*</td>
<td>Flush-mounted, DIN rail* or plate-mounted*</td>
<td>Flush-mounted, DIN rail or plate-mounted* (Enerium 110)</td>
</tr>
</tbody>
</table>

### Harmonics

| Max. order | – | 25 | 50 | 25 | 50 | 50 |

### Recording functions

| 8 load curves | – | – | – | – | – | – |
| 4 trend curves | – | – | – | – | – | – |

### Alarms

| Time/date-stamped events recorded | – | 64 | 64 | 64 | 64 | 64 |

### Qualimetry functions

| Qualimetry according to EN50160 | – | – | – | – | – | – |
| V, U, I and In waveform capture | – | – | – | – | – | – |
| Storage of last 1024 events (dips, outages, overvoltages) with time/date-stamping | – | – | – | – | – | – |

### Inputs / outputs

| Max. number | 1 | 2 | 2 | 8 | 8 | 8 |

### Inputs (optional)

| On-off (pulses or alarm) | – | 0.1 or 2 | 0.1 ou 2 | 0.2, 4, 6 or 8 | 0.2, 4, 6 or 8 | 0.2, 4, 6 or 8 |
| Analogue | – | – | – | – | – | – |

### Outputs (optional)

| On-off (pulses or alarm) | 1 | 0.1 or 2 | 0.1 ou 2 | 0.2, 4, 6, or 8 | 0.2, 4, 6, or 8 | 0.2, 4, 6, or 8 |
| Analogue | 0 | 0 or 2 | 0 or 2 | 0.2 or 4 | 0.2 or 4 | 0.2 or 4 |

### Graphics

| Fresnel | – | – | – | – | – | – |
| Gauges | – | – | – | – | – | – |
| Histograms of harmonic orders | – | – | – | – | – | – |

### Communication interface

| Optical / USB | – | Front | Front | Front or rear | Front or rear | Front or rear |
| Ethernet or RS485 | RS485 | – | – | – | – | – |
| Metrological LED | – | – | – | – | – | – |

### Other functions

| Programming on front panel | – | – | – | – | – | – |
| Programming via software | – | – | – | – | – | – |

* With mounting kit

### Advantages

- An optical head/USB connection for:
  - Programming
  - Reading the data
  - Upgrading the software

- Display with graphics (Fresnel, gauges, harmonics)

- Screenless version for DIN-rail or plate mounting (ENERIUM 110/210/310)

- Up to 8 on-off or analogue inputs/outputs
and related software

**E-view**

**Architecture:**
- Display of the electrical installation's architecture

**Display:**
- All the quantities managed by the power monitor
- Reading of 1 s, average, min and max values with time/date-stamping

**Summary tables:**
- Simplified analysis of the results
- Alarms log
- Statistics compliant with EN50160
- Time/date-stamped events (dips, outages, overvoltages, etc.)

**Data export:**
- Alarms log
- EN50160 statistics
- Voltage events (dips, outages, overvoltages, etc.)
- Waveforms
- Multiple export formats: .csv, .xls, .txt, etc.

**Energy management:**
- Display of load curves
- Comparison of energy consumption with temperature curves

**Installation monitoring:**
- Recording of critical parameters
- Analysis of recordings after triggering by alarm

**Harmonic analysis:**
- Simplified analysis of the results by means of graphics

**Phase shift measurement:**
- Implementation made easier by simple visual check
- Measurement of phase angles and unbalance (V, U, I)

---

**Related software**

<table>
<thead>
<tr>
<th>Functions</th>
<th>E-set (1)</th>
<th>E-view (2)</th>
<th>E-view+ (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creation of network architecture</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Configuration (remote or local)</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Data display and export</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Graphics</td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

(1) delivered as standard with each instrument
(2) Except on Enerium 30
Functions

Measurements

<table>
<thead>
<tr>
<th></th>
<th>1 S</th>
<th>min</th>
<th>max</th>
<th>average</th>
<th>min average</th>
<th>max average</th>
</tr>
</thead>
<tbody>
<tr>
<td>V, U</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Earth</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>I</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>In (calculated or measured)</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>P (4 quadrants)</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Pt (4 quadrants)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Q (4 quadrants)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Qt (4 quadrants)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>S</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>St</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>FP (4 quadrants)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>FPT (4 quadrants)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Cosϕ (4 quadrants)</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Cosϕt (4 quadrants)</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Tanϕ (4 quadrants)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Frequency</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>V crest factor</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<tr>
<td>I crest factor</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>U unbalance</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Harmonics on V, U, I</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Harmonics on In</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>THD V, U, I</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>THD In</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Active energy (receiver, generator)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Reactive energy (Qcad1, 2, 3, 4)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Apparent energy (receiver, generator)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>On-off input (pulse mode)</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Analogue input (Enerium 100/200)</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Voltage presence hour meter (U)</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Load hour meter (I)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auxiliary power supply hour meter</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

Except on 30

(1) on Enerium 30/50/150, calculated only

Connection diagrams

Single-phase

Balanced 3-phase, 4 wires - 1 CT
Except on Enerium 30

Balanced 3-phase, 4 wires - 1 CT
Enerium 30 only

Balanced 3-phase, 3 wires - 1 CT
Enerium 30 only

Unbalanced 3-phase, 4 wires - 3 CTs
Except on Enerium 30/50/150

Unbalanced 3-phase, 4 wires - 4 CTs

Unbalanced 3-phase, 3 wires - 3 CTs

Unbalanced 3-phase, 3 wires - 2 CTs

Example of connection to VT
Trend curves  
(except on Enerium 30/50)

1S VALUES
V, Vearth
U12, U23, U31
I1, I2, I3, In
Pt
Qt
St
Pft
U unbalance
THD V, U, I, In
Analogue inputs
(Enerium 100/200 only)

AVERAGE VALUES
V1, V2, V3
U12, U23, U31
I1, I2, I3, In
Gen: P1, P2, P3, Pt
Rec: P1, P2, P3, Pt
Analogue inputs
(Enerium 100/200 only)
Gen: PF1, PF2, PF3, Pft
Rec: PF1, PF2, PF3, Pft
Gen: Cosφ1, Cosφ2, Cosφ3, Cosφt
Rec: Cosφ1, Cosφ2, Cosφ3, Cosφt
Tanφt
Frequency
Crest factor V1, V2, V3
Crest factor I1, I2, I3
THD U12, U23, U31
THD I1, I2, I3, Ineutral
THD V1, V2, V3

Alarms
1S VALUES
V1, V2, V3
Vearth
U12, U23, U31
I1, I2, I3, In
Pt
Qt
St
Pft
Cosφt
Tanφt
Frequency
U unbalance
THD V, U, I, In

3 hour meters: network presence, on-load presence, aux. source
Analogue inputs (Enerium 100/200 only)

AVERAGE VALUES
Pt Gen, Pt Rec
Qt Gen, Qt Rec
St
Tanφt

Analogue inputs (Enerium 100/200 only)

ON-OFF INPUTS
(Enerium 100/200 only)

Except Enerium 30

Analogue outputs (option)
(Except Enerium 30)

1S VALUES
V1, V2, V3, Vearth
U12, U23, U31
I1, I2, I3, In
Pt
Qt
St
S1, S2, S3
PF1, PF2, PF3
Pft
Cosφ1, Cosφ2, Cosφ3
Cosφt
Tanφt
Frequency

Load curves
(except on Enerium 30/100 and 110)

AVERAGE VALUES
Pt Gen, Pt, Rec
Qcad1, Qcad2, Qcad3, Qcad4,
St Gen, St Rec
On-off inputs
Analogue inputs (Enerium 200 only)

Accessories
Kit for DIN-rail or plate mounting

Dimensions
ENERIUM 30/50/150
ENERIUM 100/200/300
ENERIUM 110/210/310
## Specifications

<table>
<thead>
<tr>
<th>ENERIUM 30</th>
<th>ENERIUM 50/150</th>
<th>ENERIUM 100/200</th>
<th>ENERIUM 200</th>
<th>ENERIUM 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 1</td>
<td>Class 0.5 s</td>
<td>Class 0.5 s</td>
<td>Class 0.2 s</td>
<td>Class 0.2 s</td>
</tr>
</tbody>
</table>

### Electrical network
- **Max. phase-to-phase voltage measured**: 650 kV
- **VT ratio**: VT primary: 100 V to 650 kV
- **Max. current measured**: 25,000 A
- **CT ratio**: CT primary: 1 A to 25,000 A
- **Max. power measured**: 2 GW

### Measurement inputs (AC)
- **Max. phase-to-phase voltage measured**: 650 kV
- **VT ratio**: VT primary: 100 V to 650 kV
- **Max. current measured**: 25,000 A
- **CT ratio**: CT primary: 1 A to 25,000 A
- **Max. power measured**: 2 GW

### Voltage inputs (AC)
- **Max. phase-to-phase voltage measured**: 650 kV
- **VT ratio**: VT primary: 100 V to 480 V
- **Max. current measured**: 25,000 A
- **CT ratio**: CT primary: 1 A or 5 A
- **Max. power measured**: 2 GW

### Current inputs (AC)
- **Max. phase-to-phase voltage measured**: 650 kV
- **VT ratio**: VT primary: 100 V to 650 kV
- **Max. current measured**: 25,000 A
- **CT ratio**: CT primary: 1 A to 25,000 A
- **Max. power measured**: 2 GW

### Compliance with standards
- **EN62053-22**: Active energy Class 1
- **IEC61557-12 PMD SD/SS**: V,I Class 0.5
- **Active energy Class 0.5 Class 0.2 Class 0.2 Class 0.2**
- **P,S Class 0.5**
- **Active energy Class 0.5**
- **Reactive energy Class 0.5**
- **Active energy Class 0.2**
- **Reactive energy Class 0.5**
- **Active energy Class 0.2**
- **Reactive energy Class 0.2**

### Multi-measurement (accuracies)
- **Active power and energy**: 1 % for 5 % In ≤ I ≤ Imax
- **Reactive power and energy**: 2 % for 5 % In ≤ I ≤ Imax
- **Apparent power and energy**: 1 % for 5 % In ≤ I ≤ Imax
- **Power factor (PF) and cosϕ**: ± 0.05 counts when 0.5 inductive < PF < 0.5 ± 0.1 counts when 0.2 inductive < PF < 0.2 capacitive
- **Frequency**: ± 0.1% from 42.5 to 69 Hz
- **Sampling frequency**: 6.4 kHz to 50 Hz
- **THD-I, THD-V and THD-U**: ± 0.5 counts
- **Harmonics order by order**: – ± 0.5 counts
<table>
<thead>
<tr>
<th>ENERIUM 30</th>
<th>ENERIUM 50/150</th>
<th>ENERIUM 100/200</th>
<th>ENERIUM 200</th>
<th>ENERIUM 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 1</td>
<td>Class 0.5 s</td>
<td>Class 0.5 s</td>
<td>Class 0.2 s</td>
<td>Class 0.2 s</td>
</tr>
</tbody>
</table>

**RS485 output**
- Connection: 2 wires, half duplex
- Protocol: ModBus / JBus RTU mode
- Speed (configurable): 2,400 - 4,800 - 9,600 - 19,200 - 34,800 (115,200 on ENERIUM 50/150)
- Parity: Even, odd or none
- JBus addresses: 1 to 247

**Ethernet output**
- Type: RJ45 - 8 pins
- Protocol: ModBus/TCP
- Speed (configurable): Compatible with 10, 100 and 1,000 base T

**Auxiliary power supply**
- Power supply:
  - 230...400 Vac ± 20 % (< 10 VA)
  - 80 to 265 Vac (< 15 VA)
  - 42.5 to 69 Hz
  - 110 to 375 Vdc
  - 19 to 57 Vdc (< 7.5 W)
- Speed (configurable): 80 to 265 Vac (< 20 VA) - 42.5 to 69 Hz - 110 to 375 Vdc - 19 to 57 Vdc (< 10 W)

**Digital inputs (on-off or metering pulse)**
- Operating voltage: Up to 70 Vdc max.
- Min. signal width: High level: 30 ms
- Consumption: < 0.5 W

**Pulse or alarm relay outputs**
- Type: Static relay
- Operating voltage:
  - 70 Vdc max
  - 33 Vac max
- Max. current: 100 mA
- Compliance with standard: IEC 62053-31

**Analogue inputs**
- Scale: Configurable between -20 to +20 mA
- Power consumption: < 50 mW
- Input impedance: 50 Ω

**Analogue outputs**
- Scale: Configurable between -20 to + 20 mA
- Acceptable overload: 500 Ω
- Response time: < 500 ms

**Storage**
- Non-volatile memory: Configuration parameters – Recordings (curves, alarms, min-max, qualimetry events log, IEC 50160 statistics)
- RAM: Capture of waveforms

**Environmental specifications**
- Operating temperature: -10 °C to +55 °C (K55 according to IEC61557-12)
- Operating humidity: 95 % to 40 °C
- Storage temperature: -25 °C to +70 °C

**Safety specifications**
- Pollution: 2
- Behaviour in fire: UL 94, severity V1
- Installation category: 3
### Standard ENERIUM

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency</th>
<th>Accuracy class</th>
<th>Power supply</th>
<th>Communication</th>
<th>On-off inputs</th>
<th>On-off outputs</th>
<th>Analogue outputs</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENERIUM 30</td>
<td>50 / 60 Hz</td>
<td>1</td>
<td>230 to 400 Vac/Vdc</td>
<td>-</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>P01330821</td>
</tr>
<tr>
<td>ENERIUM 30</td>
<td>50 / 60 Hz</td>
<td>1</td>
<td>230 to 400 Vac/Vdc</td>
<td>-</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>P01330822</td>
</tr>
<tr>
<td>ENERIUM 30</td>
<td>50 / 60 Hz</td>
<td>1</td>
<td>230 to 400 Vac/Vdc</td>
<td>R5485</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>P01330823</td>
</tr>
<tr>
<td>ENERIUM 50</td>
<td>50 / 60 Hz</td>
<td>0.5 s</td>
<td>80 to 265 Vac / 110 to 375 Vdc</td>
<td>R5485</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>P01330805</td>
</tr>
<tr>
<td>ENERIUM 50</td>
<td>50 / 60 Hz</td>
<td>0.5 s</td>
<td>80 to 265 Vac / 110 to 375 Vdc</td>
<td>Ethernet</td>
<td>0</td>
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### Configured products

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### Accessories

- **Optical head for ENERIUM 50/150**: P01330403
- **Optical head for ENERIUM 100/110/200/210**: P01330401
- **DIN-rail mounting kit for ENERIUM 30/50/150**: P01330360
- **DIN-rail mounting kit for ENERIUM 100/200/300**: P01330360
- **690 V / 400 V resistive voltage adapter (for wind-turbine applications)**: P01330402
- **Power supply for On-Off inputs 85 to 256 Vac/12 Vdc – 3.5 A (42 W)**: ACCJ1004

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**Accessories**

- **Optical head for ENERIUM 50/150**: P01330403
- **Optical head for ENERIUM 100/110 - 200/210 – 300/310**: P01330401
- **DIN-rail mounting kit for ENERIUM 30/50/150**: P01330360
- **DIN-rail mounting kit for ENERIUM 100/200/300**: P01330360
- **690 V / 400 V resistive voltage adapter (for wind-turbine applications)**: P01330402
- **Power supply for On-Off inputs 85 to 256 Vac/12 Vdc – 3.5 A (42 W)**: ACCJ1004

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**Logiciels**

- **E.set**: P01330501
- **E.View**: P01330601
- **E.View+**: P01330610

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