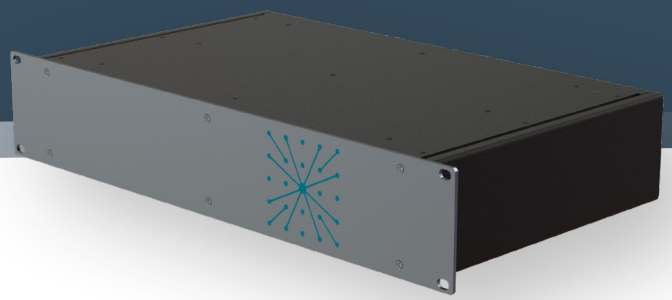
synaptec

Analytics | Interrogator | Current | Voltage | Strain & Sag | Vibration | Temperature

# Secondary Connected Module (SCM)



## Synaptec's SCM enables the incorporation of conventional CT or VT secondaries into a passive photonic sensing system to reduce cost and equipment footprint while enhancing visibility and control of complex MV-HV power systems.

Instrumentation of conventional primary converters with passive photonic sensors permits measurement of the secondary quantity without dedicated local power supplies, merging units, data networks, time synchronisation or special installation techniques. The mechanical format of the SCM is customer-specified, depending on use case and deployment environment. Synaptec's SCM may be configured as an IEC 60044- and IEC 61869-compliant protection or metering class device.

SCMs combined with Synaptec's primary-connected electrical and mechanical sensors ensure the cost, footprint and weight of sensors is minimised, retrofitting in measurement-dense substation environments is safe and fast, and maintenance-free reliability is assured.

### Electrical interface with conventional instrument transformers

| | |
|---|---|
| **Analogue current inputs** | |
| Number of secondary inputs | 3 |
| Rated current | 1 A / 5 A |
| Accuracy | 5P / 10P<br>0.5 / 1.0 |
| Burden | 1 VA (typ.) |
| **Analogue voltage inputs** | |
| Number of secondary inputs | 3 |
| Rated voltage | Up to 240V |
| Accuracy | 3P / 6P<br>0.5 / 1.0 |
| **Environmental** | |
| Operating temperature range | -5 to +40 °C (standard)<br>Extended ranges available upon request |
| Humidity | 90% (alternative specification available upon request) |
| Vibration | 1G (alternative specification available upon request) |
| **Optical** | |
| Fibre type | Standard single mode |
| Fibre connection | Single mode fibre splice<br>SC/APC connector |