MOVIPORT C118 Hand Held Tachometers ideally suited to quickly perform speed checks

MOVIPORT C118 with opto-sensor and plug-in extension cable

Various kits for a wide range of applications

C118BS
suitable for the majority of applications, equipped with battery-powered meter, standard optosensor, plug-in extension cable (2 meters), marking aids, carrying case.

C118.1BS
same as C118BS, meter equipped with RS232 data interface transmitting measurements, permanently or on request.

Outstanding Features

Ease of use, failsafe handling, fast marking of the target. The automatic signal conditioning balances distance variations, counters noise by stains. A paint mark or other source of reflection on the target is adequate, also a blade, or a nut / cam on a shaft.

Sensors to directly plug-in or via flexible extension cable.

Range up to 1 million RPM and more (0...100 kHz).

Accuracy ± 0.05 % ± 1 in LSD.

6digit LCD display, with selection to ../sec, ../min, ../h, or to controlled event totalizing.
Decimals fixed or programmable.

C118.2BS
same as C118BS, meter equipped with manually adjustable preset of input sensitivity. Useful at low speed < 100 RPM.

MAX, MIN and average memory, for a controlled period.

Incorporated data computer, on call for derived quantities, such as circumferential speed, gear reduced speed, flowrate.
6 digit factor for multiplication or division.

C118.3BS
same as C118.2BS, meter equipped with RS232 interface.

Analog output 0 ...4 volts, with programmable span.

C118.2BP
the appropriate kit for difficult application environments, as typical for the wet section of a paper machine, outdoor measurements for automotive tests. Includes meter with manual sensitivity preset, optosensor with increased light intensity and a 5 meter tightly attached cable.

Programmable input frequency divider to reduce to 1 pulse per revolution, thereby compensating an irregular input sequence

TTL pulse output (reduced to 1 pulse per rev).

Event totalising function with programmable scaling factor.
Controllable start and stop of period by key.

C118.3BP
same as C118.2BP, meter equipped with RS232 interface.

Data interface RS 232 (option) providing all measurements, on demand or continuously (programmable).

C118.4
Meter additionally equipped with extra input to sensor controlled start/stop or length totalizing. Successfully used for instance, to determine the felt length in a paper machine.
Accessories to be specified separately.

Supply by inserted batteries or rechargeable cells (optional), or from AC-mains (extra accessory with plug-in cable).

Programmable automatic shut-off when idling.

Sensors for special requirements
Besides of the optosensor, which is part of the standard equipments, there are others, useful for specific applications. For more details, see section Sensors.

Useful Accessories

- **Alternatives to supply the C118 meter**
  Besides of the standard batteries,

- **Optosensor series A1S...**
  Series A1S30 and A1S36 are available with a reduced shaft length of 35 mm (instead of standard 95mm). When space is at a premium, there is version A1S36WP35, with angled tight attachment of its cable.
  Our Laser type sensor A1S37P detects a target from a distance of over 2 meters. Or, through a narrow opening. Requires marking with U1A006 reflection tape.

- **Differential Hall-Effect series A5S..**
  Speed of rotating steel profiles (gear wheels, slots, etc.) under difficult ambient conditions: under oil or water, temperature -40 °C...+125 °C, extreme illumination. From zero up to very high speed.

- **Magnetic pick-up series A2S...**
  Detect an alternating magnetic field, as around an electric motor, transformer or ignition coil, or by a rotating magnet.

- **Wheel pulse transmitters**
  Running on a web or roll surface, to measure speed or totalizing length. Available with two wheels (series A1L..).
  Speed range up to 3000 m/min.

a set of rechargeable cells is available (No. IECR6) with charger (U1H009).
For measurements of long duration, the supply adapter U1H008 can be used. It connects to the AC mains 100...250 volts). Its output cable connects to a jack on the C118 (all versions).

- **Connecting the C118 outputs**
  Ready made plug-in cable fitting either the analog output or the pulse output, with a BNC connector at the other end. Part No. U1H012.
  Alternatively, a set of 3 single connectors, part No. MST2-3er.

- **Connecting the C118 signal input**
  All our sensors fit the C118 signal input, for direct plug-in or via the extension cable. The SAK-2m is part of the standard kit, increased length is available, also versions to connect our specific sensor models.
  To connect other signal sources, screened cables are available ready to plug-in, with open ends or BNC connector.

For accessories to sensors A1S30...A1S37 see corresponding sensor Section.