

MOVIPOINT C118 Hand Held Tachometer all you need to measure Speed

**interchangeable sensors
adjustable to all applications**



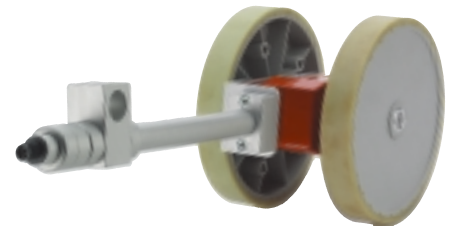
optosensor with firmly attached cable

Laser type reflection sensor



magnetic pick-up type sensor

pulse wheel



easy to handle:

Plug-in the sensor, immediately at the C118, or via the extension cable – switch to duty – choose unit to read – ready to use!

Its automatic signal conditioning cares for operation without problems.

offering quite a lot of further facilities:

- Analog output with adjustable high and low end.
- Pulse output to trigger other devices by the target mark.
- Additional computing facility (activated by key): converts measurements according to programmable multiplying or dividing factors, for instance to regard a roll circumference, a gear ratio, or a flowmeter calibration factor.

and even more:

- Pre-Divider function compensates unequal pulse distances in the input signal.
- Optimum measuring principle with fast response but stabilized results, by pulse distance function automatically extended over a (programmable) minimum time.
- Measuring range 1/min up to 1 million/min with adjustable or automatic decimals.
- Key selected ranges: /sec, /min, /h.
- MAX/MIN Memory and Average computing with manually controlled begin and end of period.
- Totalizing function with controlled Start and Stop.
- Unit supply optional by inserted batteries, or by rechargeable cells, or by mains power adapter.
- Selection of power shut-off when idling.
- Optional: RS232 Data Interface.

C118 Features

Analog Output

0 ... 2 volts, source resistance 100 ohms, safe against short circuit. Linear rise with readings, with programmable span (low end and high end). Resolution 12 bit.

Pulse Output

Repeating the input pulse sequence, reduced by programmed pre-divider. Square wave signal. 5 volts TTL level.

Measurement

Pulse distance measuring principle, with period time automatics. Programmable minimum and maximum time.

Range 0 ... 100 kHz.

Accuracy + 0.05 % + 1 in last digit.

Key selection of totalizing mode = counting (scaled) input pulses, with controlled start and stop.

Key selection between two Operation Modes

FIX = ready straight speed measurement,

VAR = full use of all computer facilities.

Conversion of Measurements

By 6 digits programmable computing factor, for multiplying or dividing mode, to automatically consider a roll circumference, a gear ratio, or a transducer scaling factor.

Display

6 digits, to read by .../sec, .../min, ... /h, or totals. Decimals gliding or programmable firm. Key recall of minimum, maximum, and average, within a controlled period of time.

Signal Input

To sensor pulses or AC-voltage 50 millivolts ... 60 volts. Key selection of automatic adaptation or firm response characteristics. Pre-divider programmable to 001...255 input pulses.

Power supply

Inserted batteries (4 x 1.5 v) or rechargeable cells. Adapter with plug-in cable available for mains supply 100 .. 250 v AC.

Operational Conditions

Ambient temperature -10 °C...+55 °C (14 ...130 °F). Weight (with batteries) approx. 480 g. Dimensions 195x100x40 mm.

Sensors fitting the C118

(see specific data sheets for details)

Optoelectronic Sensors (Series A1S ...)

Favorite to variable use, as easy to get ready: mark target by a dot, or a reflecting tape, or use an existing hole, cam, or screw heads. No special requirements to the target material. Operates without contact, and without a retroaction to the target. No danger at any high speed. Plugs immediately into the C118, or via the extension cable (SAK).

Versions to meet special demands:

Reduced shaft length, and/or high light intensity to improve a poor contrast, with firmly attached cable for humid ambience (at paper machines, for instance).

Our Laser type sensor version detects the reflection tape from a distance of 2 meters, and more.

Differential Halleffect Sensors (Series A5S ...)

Use at rotating steel profiles (gear wheel, slotted shaft), under oil, or water. Threaded shaft of stainless steel, hermetically sealed.

Accepts temperature up to 125 °C (255 °F). Operates from zero up to any high speed.

Magnetic pick-up Sensors (Series A2S...)

Detecting a magnetic field (as surrounding a motor, or transformer, or ignition coil, or rotating magnets). Special versions fit into ship diesel turboblowers.

Wheel pulsers (Series A1L...)

Run on a web or roll surface, for speed measurement or length totalizing. Delivering high pulse rate for fine resolution.

Available as single or twin wheeler, with different diameter.

Available Extras ready to assist you

Magneto-based Sensor Clamp

Fine adjustable, holds all our non-contact sensors. Helpful at critical and at longer term applications.

Plug-in cable to the C118 Outputs

For alternative use of the analog or the pulse output. Ready made, other end with BNC connector.

Plug-in cable to the C118 Input

Ready to connect other signal sources .

Supply adapter

To feed the C118 from mains 100 ... 250 volts AC. Its cable plugs into a front jack at the C118.

Various C118 Kits to meet any Demand

Ordering No. C118BS

The standard equipment, adequate to most applications. Includes battery-powered meter, standard optosensor, 2mtrs. ready extension cable, marking aids, and carrying case.

Ordering No. C118.1BS

Same as C118BS, but with RS232 data interface at the meter.

Ordering No. C118.2BS

Same as C118BS, but meter with additional manual sensitivity adjustment. Helpful at low speed < 100 pulses/min.

Ordering No. C118.3BS

Same as C118.2BS, but with RS232 data interface

Ordering No. C118.2BP

Meets difficult applications, as typical for the wet section of paper machines. Includes meter with additionally adjustable sensitivity, optosensor with increased light intensity and firm 5 mtrs. cable, marking aids, and carrying case.

Ordering No. C118.3BP

Same as C118.2BP, but with RS232 data interface.

Ordering No. C118.4

Meter additionally equipped with sensor controlled start/stop of length totalizing. Successfully used to determine the length of the felt in paper machines during full operation.

Accessories to be specified separately.

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