

# ForceMaster

## Low-Cost Monitoring for Manual Presses

Model 9110

Code:	9110 EN
Delivery:	ex stock
Warranty:	24 months

**NEW**



- Excellent value "Plug & Work" complete system
- Easy auto-configuration with automatic setting of the evaluation tools
- Smart Card system for manipulation free configuration and storage of settings
- Acoustic and optic error indication
- Data logging on USB stick (optional)
- PLC sequence control function (optional)
- Analysis and configuration software included
- Automatic sensor identification
- Hub and other component counters

### Applications

Pressure on price and quality continue to rise. The need to monitor even the simplest manufacturing and assembly process is increasingly common. With 100% monitoring of force/time curves or force displacement/time curves, the ForceMaster satisfies all requirements for ensuring the reliability of even simple press-fit processes. Thanks to its ultra-simple, single-button operation and intelligent auto-configuration, even semi-skilled staff can set up the equipment safely and quickly. "Card & Go" is the smart system that uses master, tool and PLC smart cards to make equipment settings, inhibit unauthorized changes and to trigger actions in sequence with the production process.

The ForceMaster 9110 has been developed specifically for monitoring manual lever presses. Simple manual workstations can be monitored extremely efficiently using the ForceMaster. Easy control functions that used to require an additional PLC can now be performed reliably with the ForceMaster. Tools can be changed quickly and easily using tool cards.

The ForceMaster is used for example for

- ▶ Pressing ball bearings
- ▶ Compressing powders
- ▶ Press-fitting pinion gears

### Description

The ForceMaster has a multi-voltage power supply. Excitation of the load cell and displacement sensor is provided by internal voltage-conditioning circuits. Sensor identification is built into the sensor plug, allowing sensors to be connected easily with no further configuration needed.

The integral auto-configuration tool uses a GOOD component to train the ForceMaster with the measurement curve and automatically set the evaluation elements. The user can make any further fine-tuning and adjustments to these settings manually if required.

Visual indicators such as a red and green indicator lamp signal "Good" or "Bad" parts. An audible sound is also output for "Bad" parts.

The built-in PLC function allows sequence control of up to 60 steps. This can be used, for instance, to control pneumatic cylinders, compressors for blowing out workpieces, and reject gates for OK/NOK parts.

The PC software, which is included free of charge can be used for measurement-curve analysis and fine-tuning the evaluation elements. It also lets the user view and archive the measurement curves recorded on the USB stick.