

PFTC

PNEUMATIC FLEX TOOL CONTROL

by *Wiicom*

The objectifying system
for pneumatic tools

PFTC System is a filed patent by wiicom



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PFTC

Real time objectivation of the pneumatic tools.

Being a true natural retrofit, PFTC is compatible with binders, riveters, clamping tool and many other tools.

FEATURES

Deep analysis of the curves of each pneumatic actuation

Operation outcome in the built-in touchscreen

ADVANTAGES

Advanced and versatile software, allows you to compare the flow curves of the compressed air used by the tool

Real time error detection, so you can save productive-less time



The installation is quick and simple

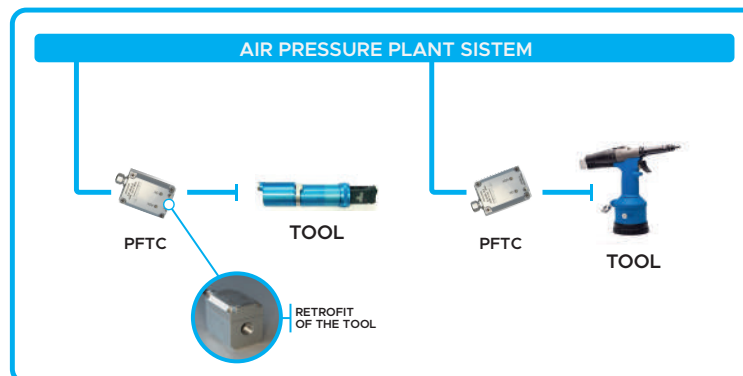
You can install the PFTC over every mechanical tool, no matter if it is old or new. The PFTC provides a worldclass objectivation grade and can be used to objectify every operation performed by the retrofitted tool.

The compressed air passing through the PFTC will be measured ensuring the highest possible precision by an in depth analysis of its flow and pressure.

The application fields

The PFTC can be applied to riveters, ensuring a constant monitoring of the applied force during the fastening of the rivets. Can be applied to insert pullers for the operation result check.

The PFTC is also compatible with clamping tools in order to verify the correct application if the metal clamps during the assembly process.

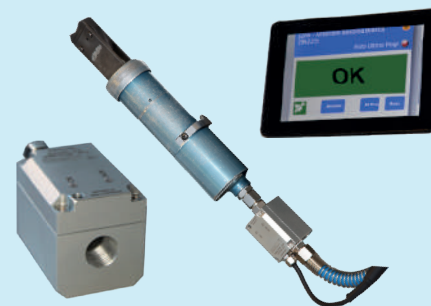




Our software is highly configurable and allows the creation of customized works based on the kind of job to be performed.

The software is simple and intuitive, with an advanced debug window. All the curves acquired can be exported and analyzed.

THE SYSTEM IS EQUIPPED WITH A TOUCHSCREEN DISPLAY, WITH AN INTUITIVE GRAPHIC INTERFACE FOR THE CONFIGURATION SETTINGS AND WORK CYCLE MANAGEMENT.



Wireless Connection

PFTC can be connected via Wi-Fi to an existent network or can be used as a hotspot, creating his own network (infrastructure), in order to manage the data communication.

The PFTC can be also connected via Ethernet trough the plant's network.

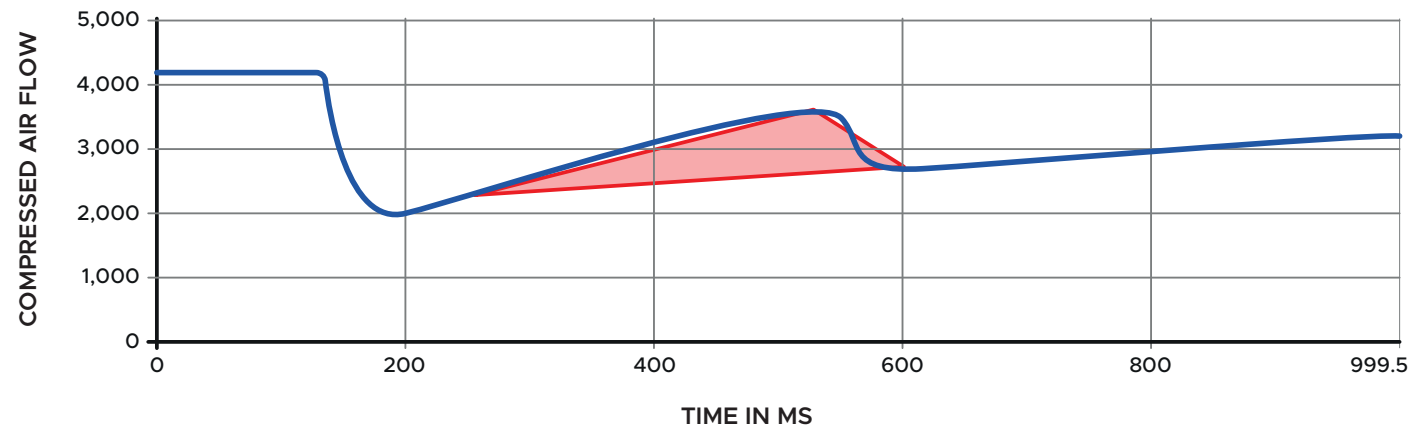
PFTC Software Management System

The software connected to our PFTC solution is advanced and highly configurable and able to get real-time control over all the operations performed by the tool and their outcomes.





CHART OF OBJECTIFICATION

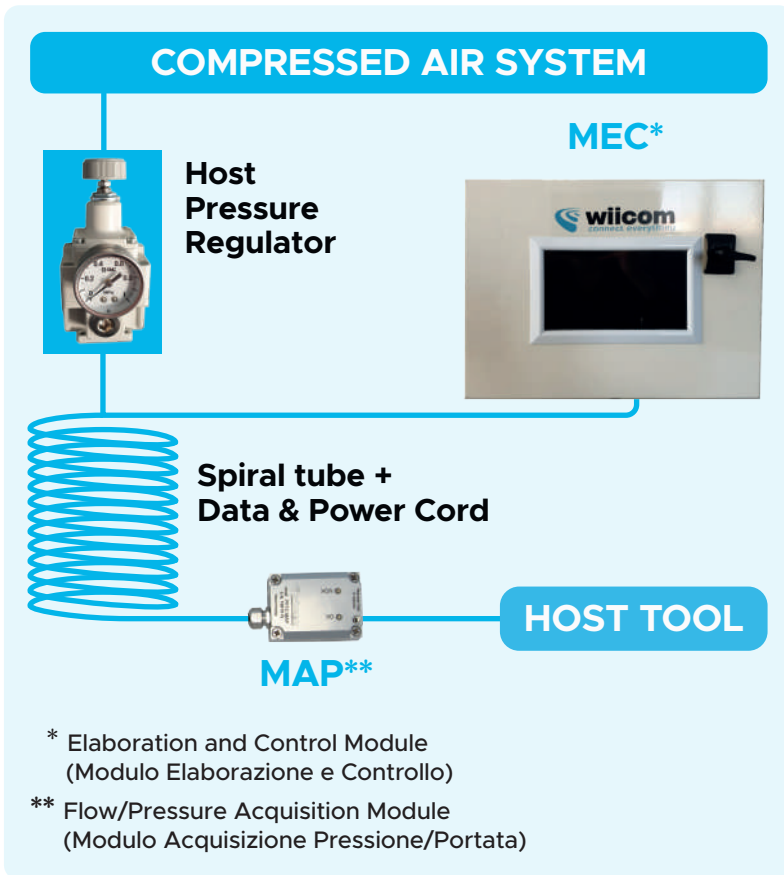


Besides counting the actuations performed by the tool, the PFTC can generate the operation's outcome directly to the built-in display with an OK-Not OK screen, so the operator can keep under control every aspect of the work. The discrimination of each true or false signal is set during start up process considering the shape of the curves, min/max observations, outliers.

In case of an error during the tool utilization the system will generate the KO screen. If the operation will be fine, the screen will print an OK screen. During the initial setting of the PFTC you can define every single parameter that will determine the outcome of the operation.

Every curve is kept safe with PFTC, either sent to a superior system (MES) or stored in our calculator and you can see them whenever required. All data are ready to be downloaded, so you can analyze your productive process and the status of the tool. Each operation is certified!

With the real time operation control, you can observe in your operations a significant time saving, money saving for unnecessary reworks or human assembly mistake. Therefore the assembly with pneumatic tools is objectified, measured, certified.



PRODUCT SUPPORT

PFTC can be used in a wide number of applications. It is ideal to be used by industry leaders willing to certify/ensure assembly lines in which pneumatic tools are deeply used. PFTC is a key partner for quality assurance of pneumatic operations.

Wiicom has a strong presence in all Europe through our distributors. For any additional information please visit www.wiicom.it or contact our sales representative at sales@wiicom.it

TECHNICAL SPECS

WLAN Functions	802.11ac, Bluetooth 5.0 BLE
RF Frequency Band	2.4 GHz, 5 GHz
Network Protocol	Gigabit Ethernet
Pressure range	0 – 10 BAR
Touch Screen	7" or 12"
Communication Protocol	CAN Bus High Speed
MEC CPU	Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
MEC SDRAM	4GB

ENVIRONMENT CONDITIONS

Operating Temperature	Industrial (0°C to +50°C)
Dimensions	MEC 34.5 x 18.5 x 26.5 cm; MAP 5 x 3.7 x 4.1 cm

POWER SUPPLY

Supply Voltage	MEC 220-240V AC (50 Hz); MAP 5.5 - 7V CC
Consumption	MEC 1.6 A; MAP 80 mA(@7V)