



FOSTEC

SMART PRESSURE CONTROL

Compressed Air System is known to have artificial loads in any system. These artificial loads happen when the pressure in the receiver is lower than the set point of the Air Compressor. The compressor ends up loading to supply the pressure up to the set point immediately without taking the lag of the signal into account. As a result, the compressor produces air for the artificial demand, causing an unnecessary power usage. Hence, the operators tend to have the target pressure set higher than what is needed, which is purely for serving the artificial demand and is not an effective way when considering the energy consumption.

FOSTEC FTD focuses on balancing the pressure of the compressed air system to prevent this artificial demand surge; thus, reducing the load of the compressor by installing behind the receiver.

FTD acts as a high-performance buffer tank with fully equipped PID Control to isolate the compressor from the demand surges. Peak demand is handled by FTD instead of being directed towards the compressor resulting in savings on compressed air energy consumption and stabilizing the air pressure for your pneumatic system.

◆ TECHNICAL SPECIFICATIONS

BENEFITS

1. Save energy consumed by air compressor between 7 – 25% by cutting artificial demands.
2. Less compressor loading. Increase higher unloading period.
3. Consistent air pressure delivery to the production processes.
4. Smart Air Buffer Storage, better stability in air supply.
5. Reduce leakages in factory with demand reduction.
6. Compatible with any compressed air system.
7. Guaranteed on payback time.

FEATURES

1. Clear and bright HMI with Touchscreen display.
2. History Record and Trending.
3. Fail Safe Operation.
4. Accurate Pressure Control.
5. Highly responsive to the demanded pressure.
6. PID Tuning based on each specific requirement.
7. Adjustable pressure and parameters when the change is needed.
8. Cloud connection is available based on request.

Display

Resolution	800*480 Pixel
Size	7 Inch
Touch Screen	Capacitive touch screen
Brightness	Adjustable

Interface

Ethernet Interfaces
RS485 Port
Serial Port Isolated RS232/485/422

Protocol

MODBUS RTU/TCP	YES
PROFINET	YES
PROFIBUS	YES
MQTT PROTOCOL	YES

Storage

SD CARD SLOTS
USB 2.0

PID Valve Specification

Control Valve	Butterfly Valve (Wafer Type)
Bypass Valve	Angle Seat Valve
Body	Cast Iron Stainless Steel is optional

Actuator & Positioner

Single Acting or Double Acting
Max Operation Pressure: 8 Bar
4 ~ 20 mA DC Positioner

Piping

Piping Material	Carbon Steel , Galvanized
Optional	Stainless Steel is optional

Operating Environment

Operating Temperature	-20 - 85 °C
Humidity Range	5% - 95% Relative Humidity

General

Power Supply	100 - 240 VAC
Dimintions (L x W x H)	800 x 1300 x 1500 mm.

Better Savings, Better Efficiency

