

Automatic control of coextrusion lines

ScenEx C

Solutions for coextruders ...

The Module ScenEx C is a process controller especially designed for the automatic control of coextrusion lines.

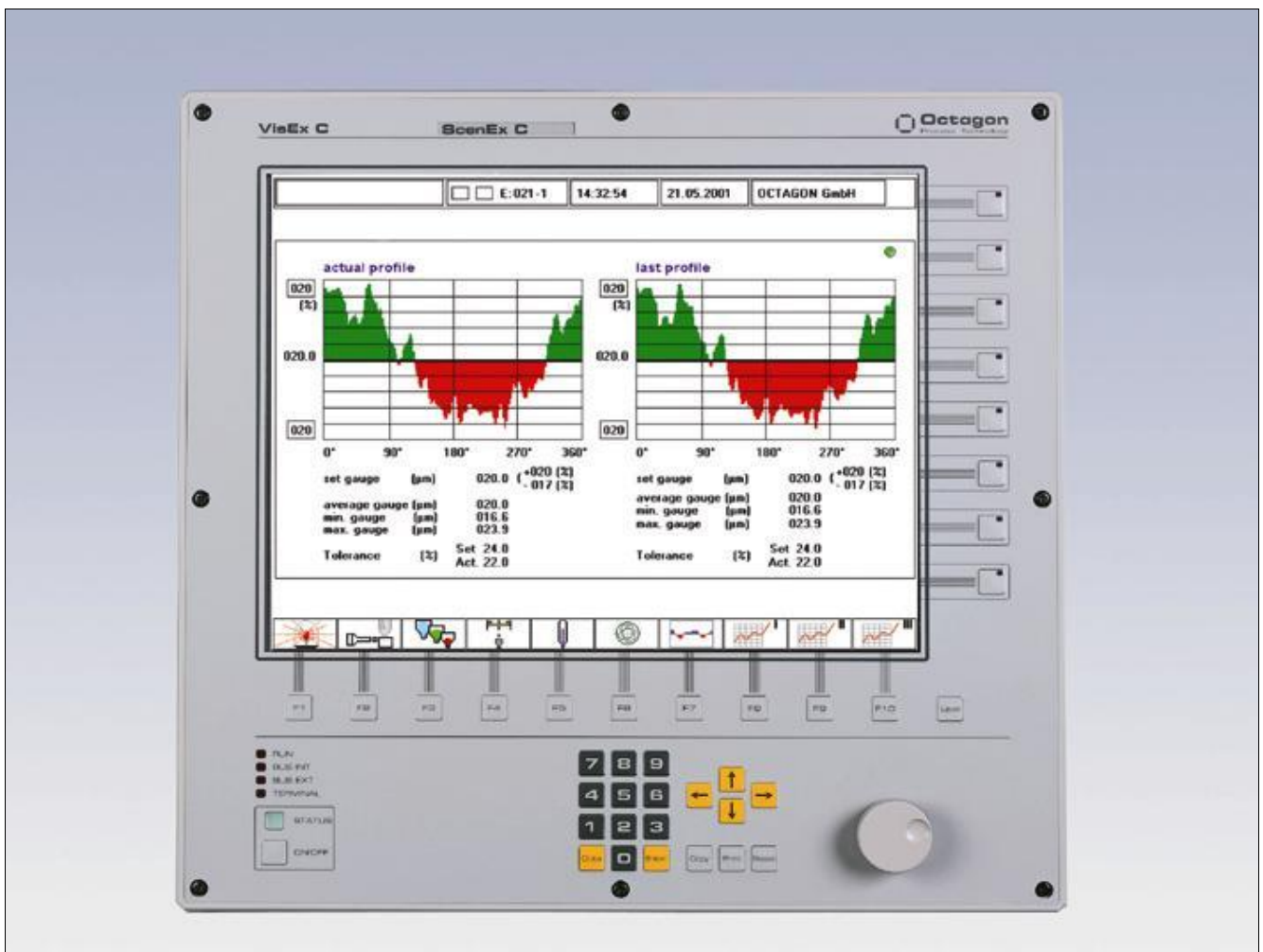
The extent of automatic control depends on the ScenEx measure and control modules connected.

... modular and ...

All ScenEx measure and control modules are equipped with their own CPU. They are connected to ScenEx C via a fieldbus (e.g. profibus) for continuous transmission of measure and control data.

... simple to operate.

To operate the system, ScenEx C is supplied as an integral unit with the VisEx C online visualisation. Its optimally designed operating panel makes the system extremely user-friendly and present a clear view of all process data.



Modular concept

- Mechanical and electrical installation fast and simple
- Communication with ScenEx measure and control modules via fieldbus interface (profibus)
- Easy integration of Octagon systems - Plug and Run

Sophisticated technology

- Comfortable to operate all functions via central operating panels VisEx
- Clear presentation of all process data, film data, alarms and charts
- Simple input of all set data

Automation of process

- Simplified extrusion process
- Safer production process
- Continuous recording and display of process data
- Better use and planning of production capacity

Octagon Control Systems: Quality control, optimised products, raw material savings

Measure and control tasks:

Connecting appropriate ScenEx modules allows the following control tasks:

Module WLS

- Layer gauge control
- Throughput control on coex line with up to 7 extruders
- Lineal weight control

Module GDS

- Gravimetric dosing of up to 6 additives per extruder

Modules LMS, GMS, Scan

- Width measurement and control

Modules PMS-A, PMS-B, VenPad PMS-F

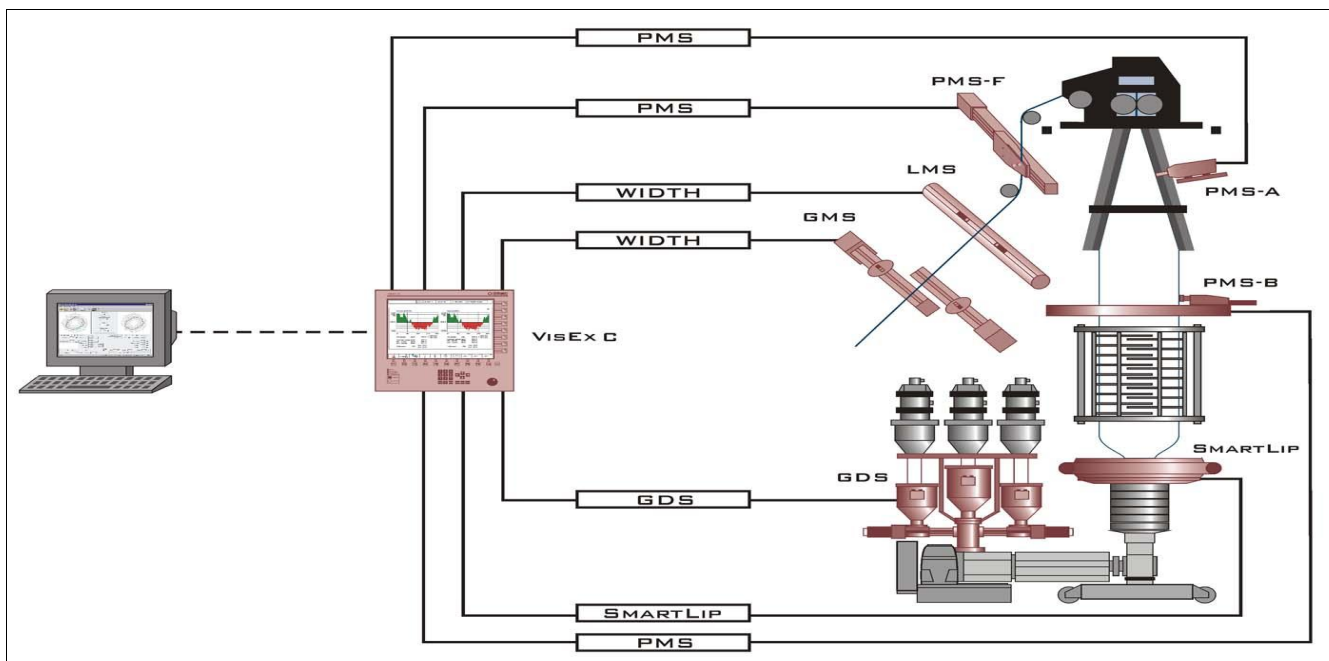
- Capacitive thickness profile measurement

Modules SmartLip, SmartLip SL, SmartLip DL, SmartLip TL, mc8

- Automatic thickness profile control

PC software DIAG-Win

- DIAG-Win Basic
- DIAG-Win Comfort



Measure and control concept ScenEx C

Layer gauge control

The WLS modules allow accurate measurement of the throughput of the different layers. Using this information, the ScenEx C process control calculates and automatically controls the extruder speeds required for each extruder and additionally the web speed to maintain total film thickness.

Tasks

- Throughput measurement and control
- Extruder screw speed measurement and control
- Layer gauge control on coex line with up to 7 extruders
- Web speed measurement
- Web speed control
- Lineal weight control

Less costs and higher quality

- Reduced waste during start-up and job changes
- Film is **never too thick**, therefore savings in raw material
- Constant thickness for each layer
- Film is **never too thin**, therefore no customer complaints
- Ensures consistency in quality

Input of set data:

- Target thickness for each layer
- Density for each layer
- Target total throughput
- Lay-flat width

Syst. supplied layer gauge cont.

- Process control ScenEx C
- Visualisation VisEx C
- Web speed probe
- Motorised potentiometer haul-off

For each extruder:

- Thrupt measurement unit WLS
- Tacho rpm.
- Motorised potentiometer extruder

Octagon
Process Technology GmbH
Nuernberger Straße 119
D-97076 Wuerzburg

Phone +49 931 27 96 70
Fax +49 931 27 47 19

contact@octagon-gmbh.de
www.octagon-gmbh.de