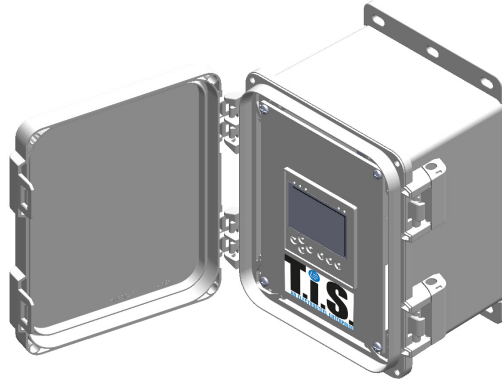


IDC • SMART AND COMPACT VALVE MICROCONTROLLER



T.I.S. IDC is a family of compact, intelligent, and flexible controllers, open to communication with various remote units and also available with cloud connectivity: controlling and visualizing your application just got easier.

T.I.S. IDC is designed as a controller for automatic diaphragm/piston control valves and needle valves, with an open, modular system and preloaded applications for the main control functions, customizable according to the end user's requirements.

The range of applications that can be implemented with T.I.S. IDC is more versatile than ever, both in the classic version with touch-screen display and the recent compact "Light" version, with an integrated display and robust touch controls.

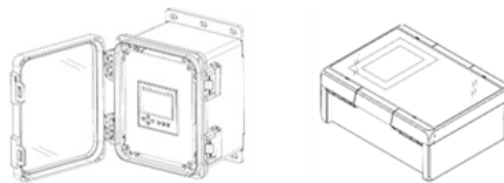
Valve control is finally open and based on curves or setpoints that can be configured simply and intuitively. Multiple PID controllers, including self-tuning, allow for accurate, continuous positioning of actuators or management of digital outputs (solenoid valve controls).

The operating logic is created using intuitive standard languages: "Function Block Diagram" (FBD) or "Ladder Diagram" (LAD).

The availability of multiple analog and digital inputs allows IDC to be fully adaptable to various control applications and customer-specific customizations. It can also process alarms, such as flooding signals, threshold violations, etc.

Each microcontroller is housed in a robust ABS enclosure for wall mounting, certified to IP68.

TECHNICAL SPECIFICATIONS



Functions and Features	IDC Light	IDC Classic
REGULATION FUNCTIONS		
Flow rate regulation	■	■
Upstream pressure regulation (sustaining)	■	■
Downstream pressure regulation (reducing)	■	■
Valve opening regulation	■	■
Regulation with day/night time setpoint	■	■
Regulation with multipoint time setpoint	□	■
Flow rate regulation based on the tank level	□	■
Pressure regulation based on flow rate	□	■
Customization upon customer request	■	■
TECHNICAL CHARACTERISTICS		
Approximate dimensions LxWxH	260x185x280 mm	285x160x365 mm
Power supply	230 VAC/ 24VDC	12-24 VDC
Controller power consumption	15 VA/W	10 W
HMI power consumption	-	15 W
Display	3,5" Color	7" Touchscreen (*)
Tactile buttons	■	□
Enclosure protection rating	IP68	IP68
Temperature range	-20..+55 °C	0..+50 °C
Real-time clock with battery backup	■	■
Configurable data logging	■	■
INPUTS OUTPUTS (**)		
Digital inputs	8	8
Digital outputs	8	8
Analog inputs	4	6
Analog outputs	2 (4-20mA/0-10V)	4 (4-20mA/0-10V)
COMMUNICATION		
Industrial Ethernet Port 10 / 100 Mbit/s (Modbus TCP/IP)	1	1
USB Port	1	1
RS485 Port (Modbus RTU)	2 (Master/Slave)	1 (Master/Slave)
CAN Port	-	1

(*) The touchscreen display size may vary based on the availability of new hardware.

(**) The number of available I/Os can be expanded with additional modules or otherwise vary based on the availability of new hardware.

INSTALLATION EXAMPLE

- RATE OF FLOW CONTROL;
- RATE OF FLOW CONTROL BASED ON SUPPLIED TANK LEVEL;
- BLENDING;
- PRESSURE CONTROL;
- PRESSURE CONTROL BASED ON SUPPLIED TANK LEVEL;
- OPENING DEGREE REGULATION.

