

SIEMENS



POLYGYR® & CLASSIC™ - HVAC controllers

The flexible and classically simple air conditioning range

Standard controllers with a future

Components and systems for the control of building services are a long-term investment, and are expected to pay for themselves over time. One way of doing this is to reduce planning and installation costs through standardisation. This, in turn, reduces the capital investment required, so ensuring a short payback for small and medium-sized systems.

This is why, when developing and manufacturing standard controllers, Landis & Staefa attaches great importance to ensuring that the control solutions maintain their value into the future. The option of phased expansion provides long-term security for existing investments in the field of air conditioning.

Competence across the board

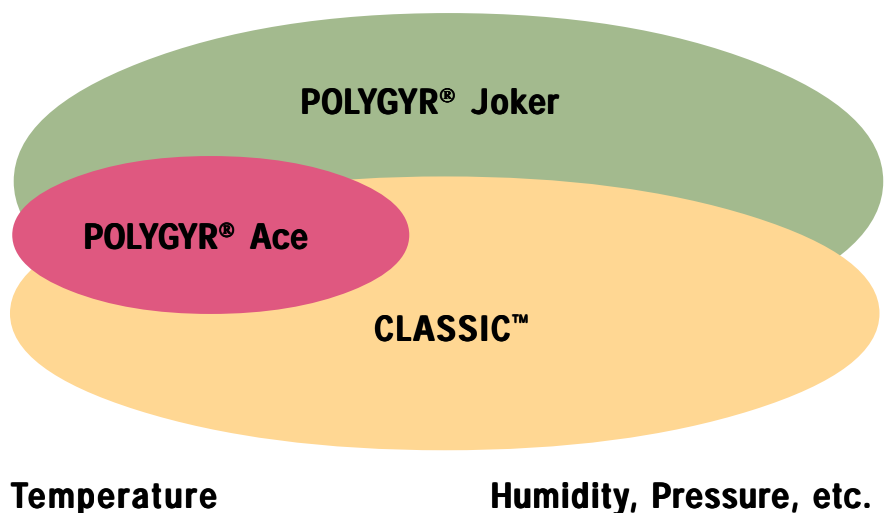
The requirements in a centrally heated office building are quite different from those in a hotel with air conditioning and constantly changing room occupancy. Similarly, commercial buildings present quite different demands from those in schools. Conflicting requirements also have to be taken into account; the need to maintain comfortable indoor conditions all year round, while at the same time keeping energy consumption and running costs to a minimum. Added to this, the operation of the installed systems needs to be as simple as possible and ideally, self-explanatory. Finding solutions to complex requirements is one of the challenges we have been meeting for decades. Our vast experience of many years in the field of heating, ventilation and air conditioning is reflected in our standard controller range. With the market-leading products such as CLASSIC, POLYGYR Ace and POLYGYR Joker, we can offer coherent ranges and solutions for every type of plant.

Key features at a glance

- Complete controller ranges for small to large buildings.
- Field-tested control solutions for standard applications, continuously improved and updated.
- Significant cost savings in planning, installation, commissioning and service.

Digital / Configurable

Analogue / Screwdriver



Stand-alone HVAC controllers - POLYGYR® & CLASSIC™



CLASSIC™ is the simple solution for stand-alone control of small ventilation and air conditioning systems. The controllers, designed for temperature and humidity control are built using proven analogue technology.

A screwdriver is all you need for mounting, commissioning and parameter setting.

The range includes:

- Universal controller for temperature, humidity, pressure and air quality control.
- Cascade controller with heat recovery for temperature control systems.
- Optional plug-in digital indicator for all controller types.
- Additional shift module for setpoint reset on the basis of a second variable (e.g. from outside air temperature sensor).
- Auxiliary equipment, including step controllers, signal transducers and phase-cut interfaces.

POLYGYR® is designed with built-in digital operation for use in ventilation and air conditioning systems. The controller functions are assigned to the relevant applications via the keypad. An easy to read LCD display panel shows the current operating states and program functions.

The products are easy to install, can be mounted either on the fascia of a control panel or on DIN rail on the backplate and is easy to connect to our proven range of field devices.

The range includes:

POLYGYR® Ace

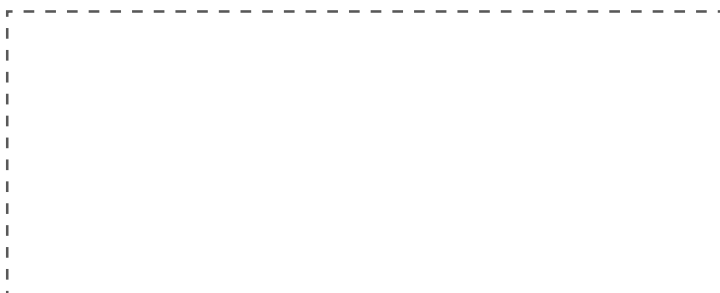
- Temperature controllers with 2 outputs for heating and/or cooling.
- Analogue / 2-position or 3-position outputs, depending on controller type.
- Maximum ease of operation.
- Temperature differential control.
- Setpoint reset.
- PI-limit control function

POLYGYR® Joker

- Universal controllers for temperature, humidity, pressure and air quality control.
- 3 individual configurable control loops per controller
- Two-stage super frost protection.
- High and low limit control.
- Setpoint compensation
- Maximum priority for cooling / dehumidification in sequence.
- Room / supply air cascade control.

Technical data at a glance

		CLASSIC™				POLYGYR® Ace		POLYGYR® Joker	
		RKN8../RKN2...(5 types)	RKN88T	RKN8..-L (2 types)	RKN-W	RWC.. (3 types)	RWX62.. (4 types)		
Universal controllers		●	●			●	●	●	●
Cascade controllers				●		●	●	●	●
Energy recovery controllers					●				●
Control action	P	●	●	●	●		●	●	●
	PI		●	●	●		●	●	●
	PID		●	●	●			●	●
Control variable	°C temp	●	●	●	●		●	●	●
	% RH	●	●	●				●	●
	abH								●
	enthalpy h								●
	pressure p	●	●						●
	air quality AQ	●	●						●
	volume V								●
	0.. 100%	●	●	●					●
Frost protection									●
Remote setpoint adjustment/shift		RKN-S	RKN-S	RKN-S	RKN-S	●			●



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