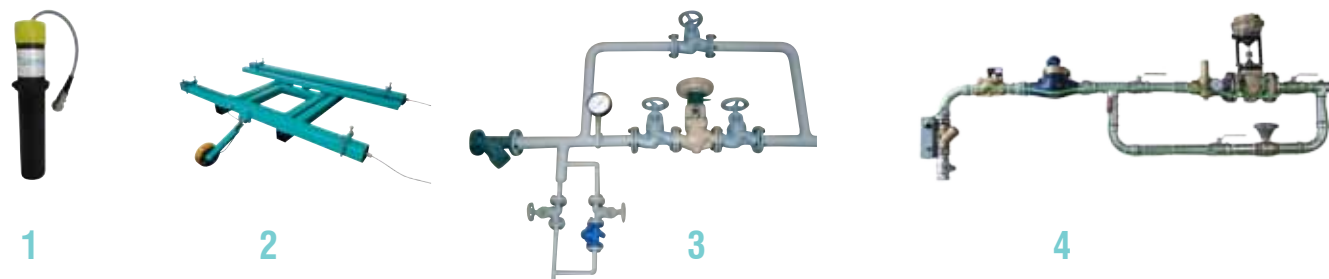




EXTERNAL SENSORS AND ASSEMBLY GROUPS



1 ELECTRONIC PLASTOMETERS

Plastometers for detection of pressure value optional either with temperature sensor PT 100 and display station or with variously designed displays.

2 QUANTITY DETECTION

Belt-weighers can be integrated for the determination of material throughput. Existing weighing frames can also be integrated into the Novatronic C2+ system.

3 DOSING UNITS FOR STEAM

From DN 25 to DN 65 with electro-pneumatic proportional control valves for additions of 625 kg/h to 3750 kg/h at 8 bar.

- Supplied ready for installation

4 DOSING UNITS FOR WATER

- With impulse valves
- Throughput performance with piston stroke 1 mm at 1.0 bar 0 ... 500 l/h at 3.0 bar 0 ... 1000 l/h
- Throughput performance with piston stroke 2 mm at 1.5 bar 0 ... 1250 l/h at 3.0 bar 0 ... 2500 l/h

In case of problematic water supply and/ or large throughput volume electro-pneumatic proportional control valves are employed.

- Design size DN 15 - DN 50
- Throughput performance at 3 bar from 1800 l/h up to 15.500 l/h
- Supplied ready for installation

ADDITIONAL SENSORS AND ASSEMBLY GROUPS

- Measuring transducers for direct and alternating current
- Water meters
- Level measurement for monitoring material level in hoppers and containers
- Frequency converters
- Assembly groups / sensors to customer request

TRUST IN INNOVATION



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Sensor control

Gesellschaft für Sensorik und Automation mbH

PLASTICITY AND MOISTURE CONTROL SYSTEM

NOVATRONIC C2+

FOR PREPARATION AND MOULDING LINES FOR

- Brick and clinker works
- Roof tile works
- Production of hand-made bricks
- Technical ceramics
- Plant/garden ceramics
- Refractory ceramics
- Expanded clay





NOVATRONIC C2+



CONTROL OF PROCESSING MACHINE

The **NOVATRONIC C2+** can be used to evaluate following measured values:

- Power consumption
- Flow pressure in pressing head
- Material moisture
- Material temperature
- Belt scale



NOVATRONIC C2+ IS THE NEW, ENHANCED VERSION OF THE TRIED-AND-TESTED CONTROL SYSTEM NOVATRONIC C2

NOVATRONIC C2+ is based on PLC control and is designed to regulate individual processing machines.

During development, the dimensions and parameter structure of the **NOVATRONIC C2** were used as a guide, meaning that it is simple to make a 1-to-1 swap between the two systems without a great deal of effort.

Measurement of the power consumption of the selected unit is essential for the system to function. The **NOVATRONIC C2+** also offers the option to connect control variables (belt scale or humidity sensor at the infeed of the unit) or additional measurement variables such as pressure (via a plastometer, as an option with additional temperature measurement) or humidity at the unit outlet for the possible construction of cascade control.

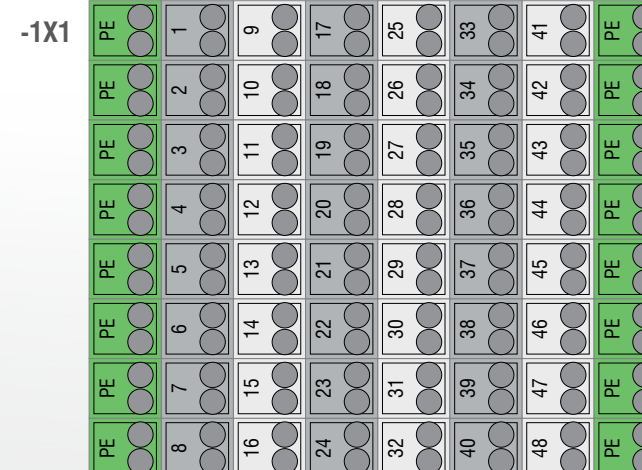
The **NOVATRONIC C2+** can be used to control up to three valves (1x impulse valve, 2x control valves). The water or steam can be added in a controlled manner or manually with separate release contacts.

The **NOVATRONIC C2+** also offers two alarm contacts. If a selectable measurement or output value of the system is exceeded or undershot, a potential-free contact can be switched to indicate this state.

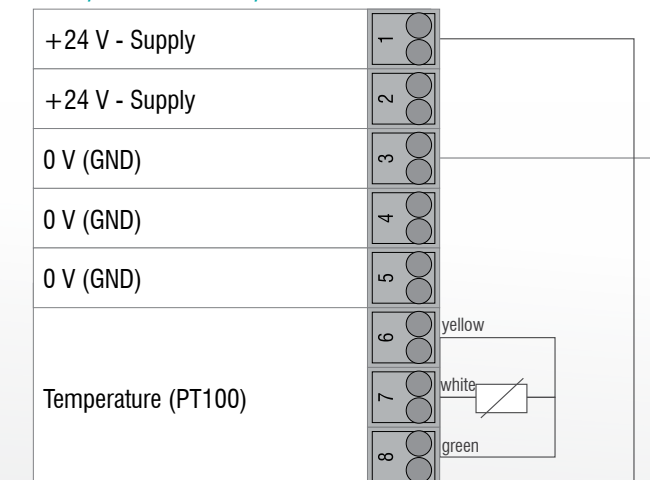


CONNECTION ASSIGNMENT OF THE NOVATRONIC C2+

OVERVIEW



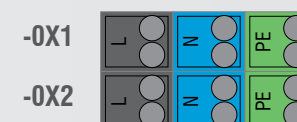
24 V / GND-SUPPLY / TEMPERATURE



The signals and valves are connected via terminal block -1X1 on the back of the Novatron C2+. An partial overview of the individual terminals and their assignment can be found on the next page.

The green terminals on the right and left of the terminal block are designed as PE terminals.

POWER CONNECTION

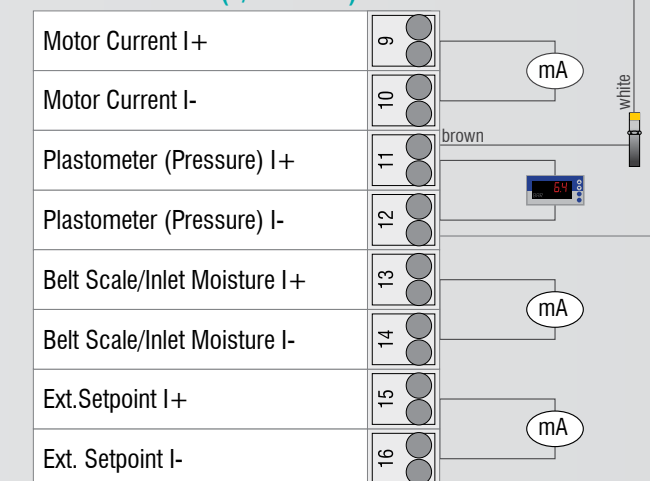


The mains connection (230 V AC / 50 Hz) is made via terminal strip -0X1. A backup fuse of max. 16 A must be provided.

The terminal strip -0X2 serves as a 230 V supply for external sensors, display units, etc. (max. 2 A).



ANALOG INPUTS (0/4..20 mA)



ANALOG INPUTS (0..10 V)

