



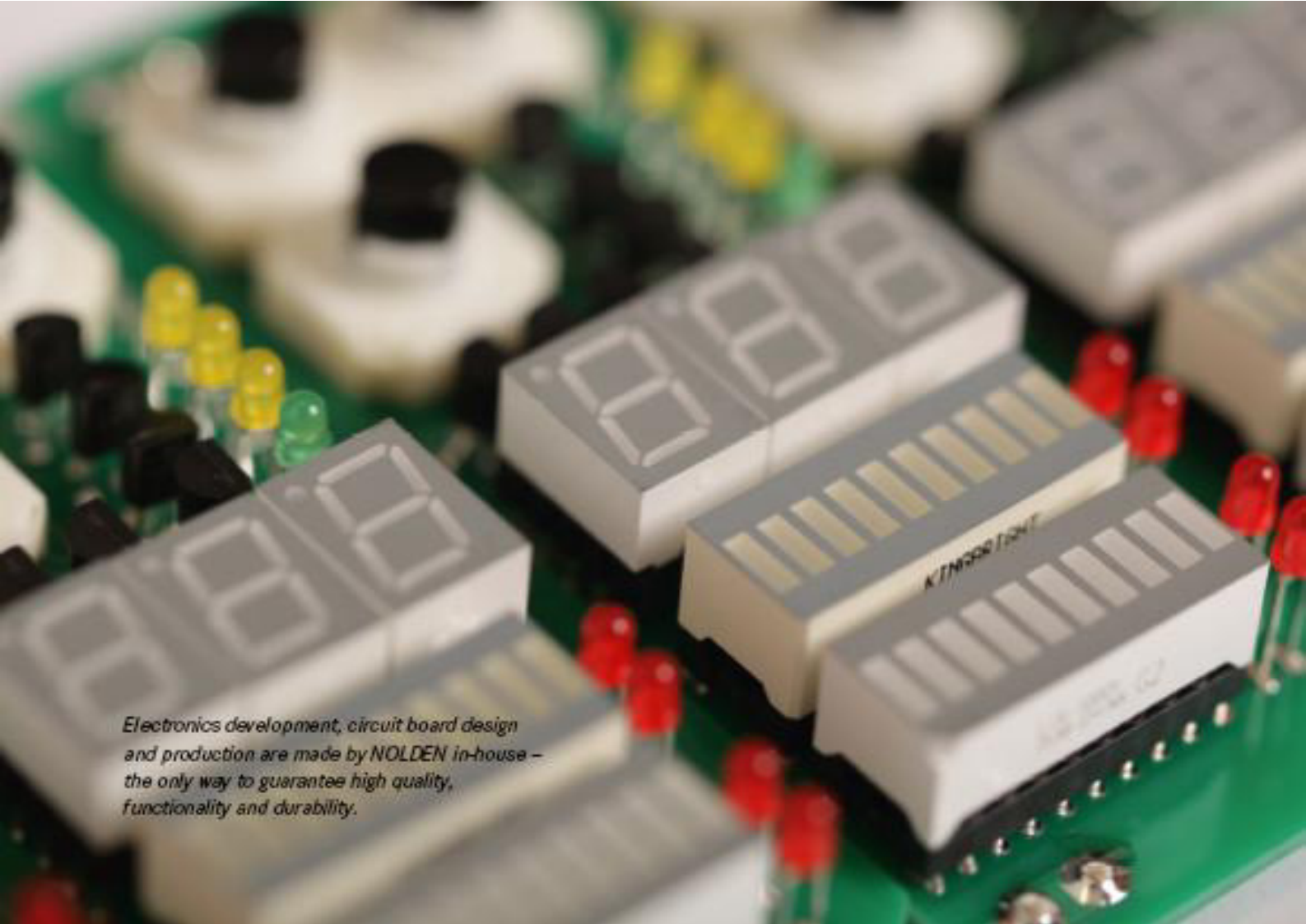
**PROCESS CONTROL SYSTEMS  
FOR THE PLASTICS PROCESSING INDUSTRY**

Precise. Innovative. User friendly.



**NOLDEN  
REGLER**

[www.nolden-regler.de](http://www.nolden-regler.de)



*Electronics development, circuit board design and production are made by NOLDEN in-house – the only way to guarantee high quality, functionality and durability.*

## NOLDEN CONTROL SYSTEMS

**Since 1975 at your service  
for plastics processing**

For more than 40 years, NOLDEN controllers are known for precise temperature control in the plastics processing industry. Originated from a small development company for high quality laboratory controllers, NOLDEN designs and produces today precise process control systems mainly for hotrunners and injection moulds.

Starting with temperature control in the hotrunner, more and more additional process control, diagnosis and monitoring functions were added – that's how NOLDEN brings you today the whole mould control in just one device. This simplifies a lot the operation and wiring and saves precious space around the injection press. In many cases – as for the integrated servo motion control or the new mould wiring box "MouldConnect" – NOLDEN was the trailblazer for new, innovative technology, shown by numerous patents and industrial property rights.



*Hans Werner Müller, Owner/MD*



*NOLDEN company site  
in Alfert near Bonn*



*Uta Flötzer,  
Customer service*



*High quality masterbatches made from technical composites – this is where everything begins. Until obtaining dimensionally accurate parts with complex functions and perfect visual appearance, you need experience – and perfect process control.*



*NOLDEN booth at FAKUMA fair*



*Coordination within the production team*

As a development and production company, we want to be at your service from the very beginning. This starts with profound information on specialized fairs and individual support to find the best suitable control system, of course with thorough testing cycle in your production environment. Also for future upgrades and function enhancements as well as service and repair – we would like to be your partner for the whole life time of your device.

Touchscreen systems

Servo motion control

MouldConnect

Compact controllers

Plug-in temperature controllers and -racks

Wiring accessories

## TOUCHSCREEN CONTROLLER

### All control and monitoring functions for the hotrunner in one device

Easy, user friendly operation is of great significance in injection moulding – so many systems and increasing complexity are a challenge for most operators.

That's why simple, intuitive operation was on top of the list when we developed the new NOLDEN STS – Smart Touch System. All functions as hotrunner heating, mould cavity pressure measurement or servo motion control are operated in a similar manner – and all mould data are stored in one common recipe memory.



Series NR 7000

Tower casing in 2 sizes, up to 48 or 120 zones



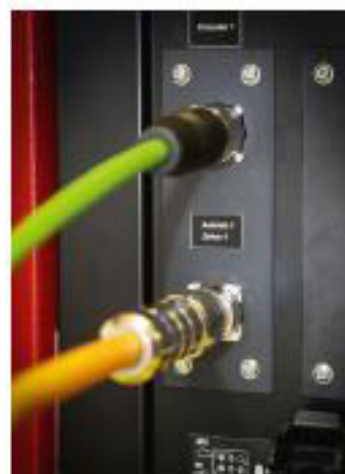
Series NR 7000

Desktop casing up to 24 zones



Servo drive

Example with linear valvagate actuator



Servo cables

Motor- and encoder cables connected to the hotrunner controller

## ////// MOULDCONNECT

The new, innovative mould wiring concept by NOLDEN



Perfectly matching with NOLDEN touchscreen controllers, MouldConnect simplifies drastically the wiring and connection of your mould. Just wire all temperature sensors, pressure transducers and other low voltage lines such as core pullers or proximity switches into the new MouldConnect box. From there, only 1 cable is needed to the control system.

One plus on top : As you connect the cable to the controller, the mould is automatically identified and mould data are loaded, you simply can't do it easier!

### Cavity pressure sensors

Direct action piezo pressure sensors by BAUMER of Switzerland



### MouldConnect T

For 24 or 48 temperature sensors, extension up to 120 zones



## ////// COMPACT CONTROLLERS

Classical multizone-temperature controllers in NOLDEN quality

For small and medium size hotrunners, where no other functions are needed, we still have the proven compact devices from 4 up to 16 zones, precise, long-lasting and easy to operate.



### Series NR 5000

For hotrunners from 8 up to 16 zones, comes standard with mould diagnosis function



### Series NR 4000

For hotrunners with 4, 6 or 8 zones

Touchscreen systems

Servo motion control

MouldConnect

Compact controllers

**Plug-in temperature controllers and -racks**

Wiring accessories

## ////// **PLUG-IN TEMPERATURE CONTROLLERS AND RACKS**

### **The proven NOLDEN controllers – easy to operate and durable**

That's how temperature control began at NOLDEN, unmatched in precision and handiness until today, now at the 7th generation in modern digital technology.

Choose from a range of mainframe racks for 2 up to 18 zones, with controller and signal alarm units. Compatible to all NOLDEN plug-ins ever produced, no matter which series. Just slide in the unit and switch it on, everything else is done automatically.



**Series RG 425**

Rack for up to 4 control or alarm signal units



**Series NR 3070**

19" Microprocessor plug-in controller with LED-display and bargraphs



**Series RG 625**

Rack for up to 6 controllers and 1 additional alarm signal unit



**NR 2021/22**

High intensity controller for 3-phase heaters, available in many versions

## ////// ACCESSORIES

### for electrical mould heating – manufacturer independant

Often, time is short, an unplanned repair must be done and spare parts are missing. Good to know that NOLDEN has a broad assortment of thermocouples, heating elements and connectors available ex stock. Compatible

to most industries standards, independent from the brand of the injection press and at low prices. Mould connecting cables are made to measure in all lengths and wiring standards at short notice.



#### **Thermocouples**

In many variants for moulds and plastics processing machines



#### **Mini mould connection box**

In stainless steel for square mini connectors



#### **Mould connection box**

NOLDEN design, 3-part-casing, simplifies the wiring of multi-pole connectors



#### **Connector inserts**

With proven screw connecting or patented SQUICH quick-lock technology



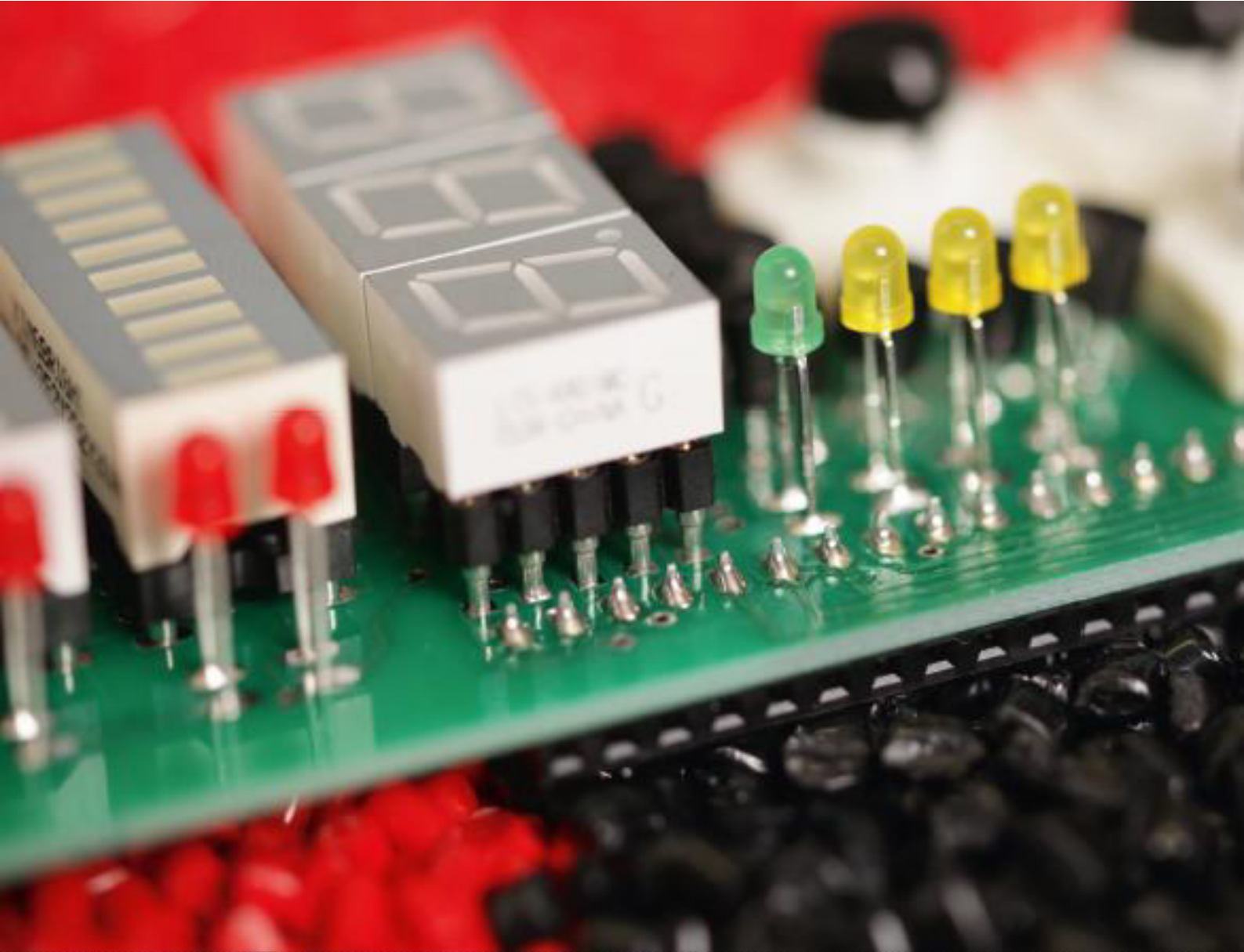
#### **Heavy duty connectors**

All versions available ex stock



#### **Heating elements**

In brass and stainless steel ex stock, many other variants available on demand



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