

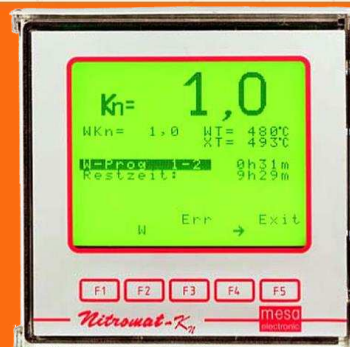
Nitromat-KN

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
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Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

Control system Nitromat - K_N



Function:

The **Nitromat-KN** is a measuring and control system for exact furnace atmosphere-control in nitriding-or nitrocarburizing processes. The 99 program controls of process-temperature and K_N -values, with free eligible program time tracks and analogous outputs for NH_3 - N_2 -Endogas CO_2 , by mass flow controls enable an exact control of gas-nitriding processes. A controlled N_2 - thinning of the Nitriding atmosphere is possible. By use of the initial gas, it is possible to reduce the complete treatment time. In connection with the program time tracks and a program selection in addition, a pre-oxidation of the components is possible.

Special features:

- Menu-guided operation, plain text
- Foil keyboard
- Exact control
- Connections of one thermocouples Type "S" or "K" by choice
- Program memory with 99 set point programs for K_N - and process temperature (time synchronous)
- Program tracks, free eligible
- Continuous control of ammonia, PID-control
- Transfer output, K_N
- All inputs and outputs 4...20 mA (unless thermocouple)
- Directly adaptation offlow meter controller for NH_3 , N_2 , CO_2 or endogas
- 2 ammonia flowmeter controllers for small or great quantity are chooseable (there by high precision)
- Limit of control variable at ammonia quantity are separate possible
- Possibility for initial gas
- Set point programmer for process temperature is indicated
- Option:
 - Serial interfaces(RS422/RS485)

Control system Nitromat - K_N



Technical Data:

Construction:

Type of protection of the front is IP 43

Dimensions:

144 x 144 x 300 mm (l x w x h)

Auxiliary voltage:

230 Vac $\pm$ 10 % 50/60 Hz

Power consumption:

About 15 VA

Analog (in following combinations):

- H₂ analyzer
- Thermocouple type K or S
- Terminal temperature (Pt 100)
- H₂
- actual value
- NH₃
- actual value
- Endogas or CO₂
- actual value
- External set value: analog or through serial Interface

Digital:

- IN 0: program release with set point
program in progress:
otherwise, controller locked
- IN 1: program continuation in succession
- IN 2: input disable

Measuring range:

0,2...50 KN

Analog output:

- KN- Value
- N₂
- actual value
- NH₃- control output
- Temperature controller output

Switching outputs:

- 3 control tracks freely available
- Signal actual values in tolerance range
- Signal program active
- Signal Alarm indication
- Signal switching for ammonia flowmeter controller
- Signal CO₂-bonus (at Nitrocarburizing)
- Signal gas release

All outputs "open collector" 24 V / 100 mA

(You need switching outputs with relay contact, please notice our data sheet Auxiliary unit REL 45..)

Serial interface (option):

- RS 232
- RS 422 / RS 485

Display:

Graphical LCD display with 160 x 128 pixels

Operation:

Five keys (soft keys) with user guidance (menu guidance);
respective function of the keys indicated on display

Set point:

- 4 preset points for C level
- 99 set point programs for KN- temperature profiles, internally storable and recallable;
(program travel time per program: up to 100 h)
- 23 segments / program

Climate:

Storage: -10...+60 °C

Operation: 0...+42 °C

5...95 % relative humidity, non-condensing

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