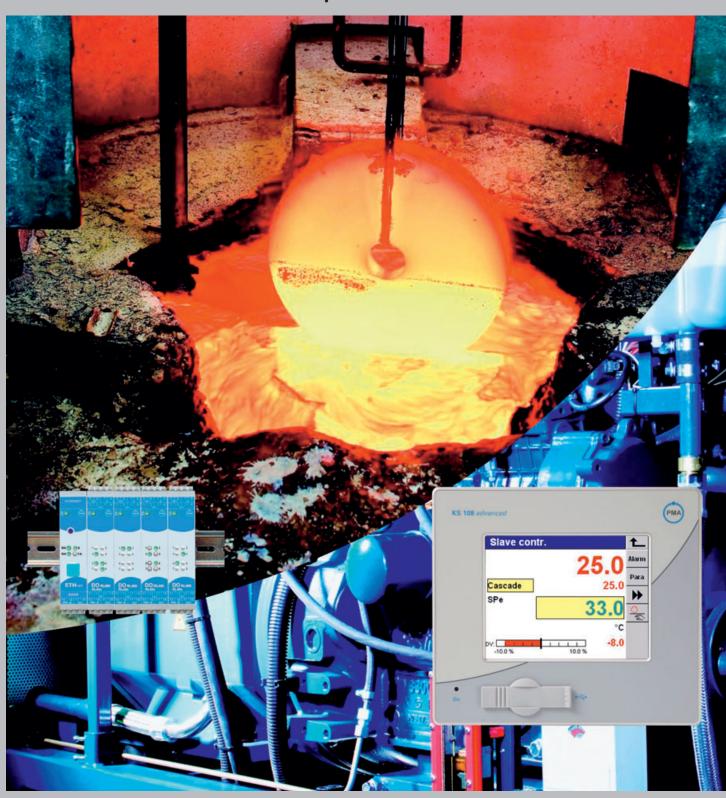
Clear perspectives with KS 108

The new format for process & machine automation



George R. Peters Associates BALES REPRESENTATIVES

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Innovations "Made by PMA"

PMA's roots go back to 1929 and the company Georg C.K. Withof in Kassel, Germany. During the past 8 decades, the company's pioneering achievements and practice-oriented solutions had a decisive influence on the speed of innovation in the field of control technology.

Since then, several million controllers have been sold worldwide.

Networked automation systems that are operated via colour display screens have been supplied to the international market since the early 80's.

PMA is at home in all areas of thermal processing, and meets the demands for high precision and low cost of ownership in our customer's processing plants.



Automation of the first CD production lines – one of the many pioneering achievements in close cooperation with the customer.









Process and machine automation





In accordance with the increasing demands placed on process & machine automation, PMA's product range includes compact, universal single-loop controllers and multi-function units for direct mounting in the control panel, as well as versions for cost-effective mounting to DIN rails.

Moreover, there is a wide range of single and multi-loop controllers with remote operating facilities.

Engineering Tools provide the decisive means for successful controller operation.

What's more, since 1998 PMA has been gathering experience with touch-panel PCs for the automation of complex machines, multi-loop controllers, and even gas supply plants.





So it almost seemed natural for PMA to develop a new process controller format based on this wealth of experience: The automation concept KS 108.



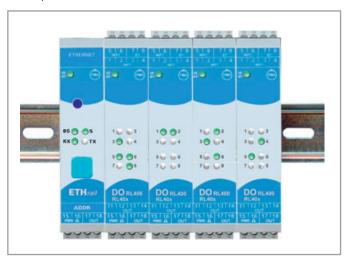
Innovative drive

Use our experience from all formats

Set aims and achieve them – with success!

Automation in a new format: KS 108

Field signals are connected via remote I/O modules for all requirements:

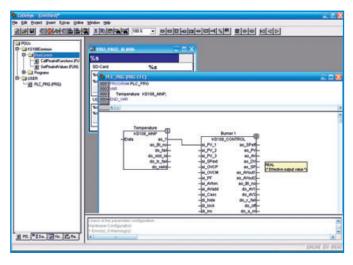


RL 400 system for precise process signals

Vario I/O, the system for numerous standard signals



Programming acc. to the international standard IEC 61131-3



PMA has made all its extensive know-how available – in particular for complex control technology. Use this opportunity to benefit from the cost advantages offered by the KS 108 concept.

We will be happy to support you.



Three columns: Hardware, Software, Support



The KS 108 not only features a brilliant TFT touchpanel in a robust metal housing, but also:



Cost-effective memory expansion with an SD card (e.g. measurement data acquisition)



Simple recipe storage and software update via front USB port



Numerous field interface ports at the rear of the unit – simple termination

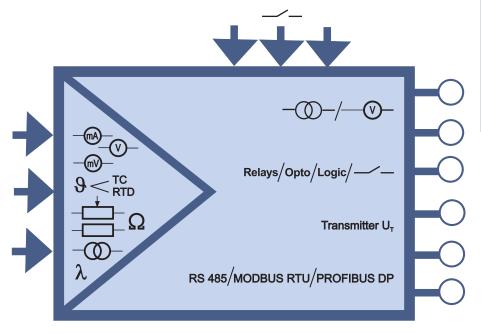
The KS 108 concept: Simple, clear, and robust for industrial use.

Customized solutions now have a new basis: the KS 108!

KS 108: Engineering made easy!

The KS 108 provides much more than control

solutions in a PLC!

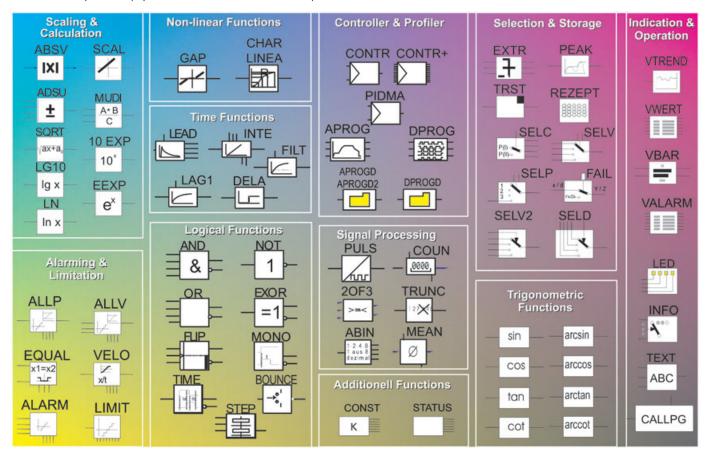


Customized control strategies are implemented easily, safely, and reliably.

For multi-term, cascade, and override control you simply combine the preconfigured and pretested functions from PMA's know-how library to obtain your individual solution. In this way, you apply your own expertise using PMA's basic functions.

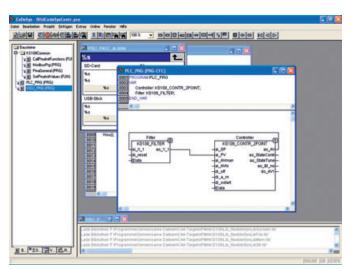
For this, you have full access to PMA's comprehensive function library, from which you simply select and connect the required function blocks.

KS108	A PROG
_ai_PSet	ao_SP_
_ai_DBlock	ao_TNetto_
_ai_ProgNo	ao_TBrutt_
_ai_PV	ao_TRest_
_ai_SlavNo	ao_SegNo_
di_hide	ao_SPend_
_di_lock	ao_ProgNo-
di_run	ao_SegRes_
di_reset	ao_Bl_no_
_di_preset	do_run
_di_search	do_reset_
_di_p_show	do_end_
di_halt	do_fkey_
_di_manfree	do_preset_
tData	do_manual_



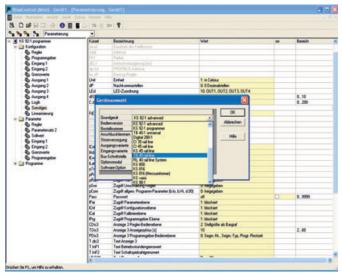
PMA tools for every project situation

Practical optimization is equally convenient



Programmed like a PLC

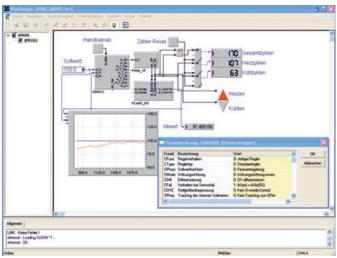
The basis: CoDeSys to IEC 61131-3 is a worldwide standard, supplemented with useful control functions by PMA.



Customized commissioning

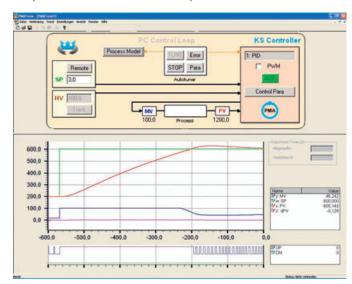
The completed multi-function application is parameterized easily with BlueControl®, in the same way as for other PMA controllers. Practice, not theory!





Projecting with graphic tool BlueDesign®

PMA's convenient alternative for the control engineer – no programming experience required. The easiest way to find solutions for complex tasks.



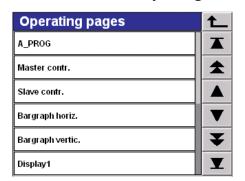
No nervous stress on site

Even when commissioning problematic loops, PMATune quickly and automatically determines the optimum settings for the control parameters $\rm X_p$, $\rm T_n$, and $\rm T_v$.

Practice-proven function library
Convenient generation of
projects
Practice-oriented tools

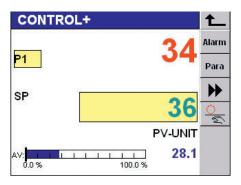
Convenient visualization and operation

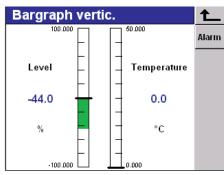
Individual projects built on a sound basis

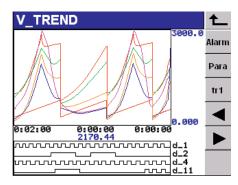


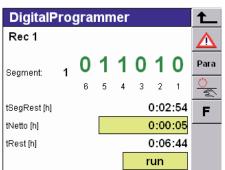
Ala	rm							1
	D	ate	Time	9	Alarm d	lass	Mes	sage
0	03-08	3-2006	10:33:	32	no_a	ick		
1	03-08	3-2006	10:33:	53	no_a	ick		
2	03-08	3-2006	10:33:	32	no_a	ick		
3	03-08	3-08-2006 10:33:20 no_ack						
Conf	īrm	Cor	nfirm Al	ı	History		Service	

SD-Card	File deleted		
otal size	128 MByte		
ree Space	122 MByte		
Delete all	Delete SD-Card		
ISB-Stick	Error		
otal size	256 MByte		
ree Space	204 MByte		
Move to USB-Stick	Copy to USB-Stic		

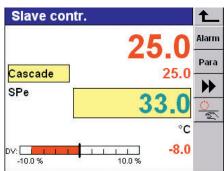




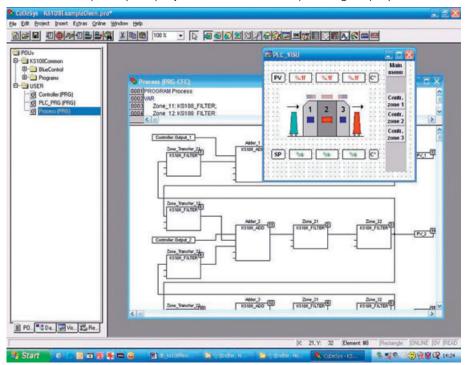


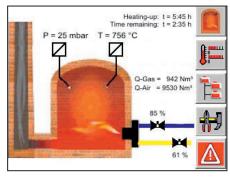


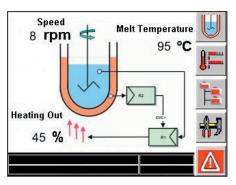
Operating dialogs are an integral part of the engineering library – a standard feature with PMA.



You then complete your project with individual operating displays:





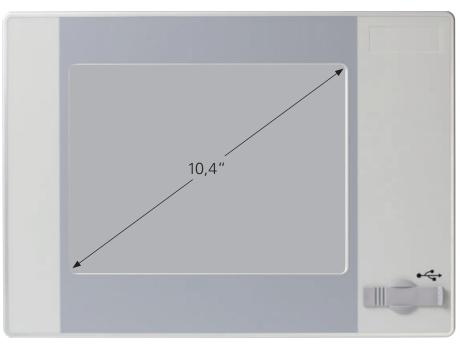


KS 108 for high flexibility

Select your hardware solution! Select the tools best suited for your needs!

5,7 or 10,4-inch screen diagonals CSTN or TFT technology







The KS 108 hardware adapts to your demands as flexibly as the software.



The KS 108 family:

Three roads to success.
Select the one you need.
Cut your projecting times
dramatically.

Version KS 108 PLC:

Standard according to IEC 61131-3

The tool for PLC experts!

Version KS 108 flexible:

IEC 61131-3 extended with PMA's control functions

Don't reinvent the "control technology wheel" – benefit from PMA's proven functions and the ready-made operating displays!

Version KS 108 easy:

Graphic engineering tool for creating interlocked automation and control functions:

BlueDesign®

The easiest way to find solutions for complex tasks – without programming know-how!

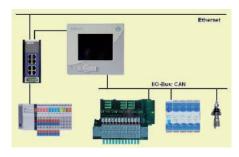




KS 108: Top fit for your application

Decentralized automation

- breaks new ground!

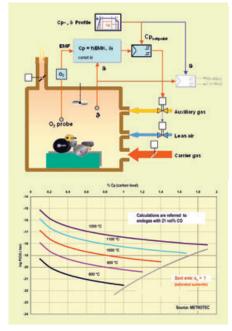


Saves installation time and cuts investment costs – simplifies commissioning

Integrated process technology -

thermal treatment processes made transparent for the user





Extruder automation made easy with varioEC108!

Ready-toconnect solutions from PMA – freely scalable for individual adaptation, and with all the performance features required by the application.







Reduce your commissioning times Control your process reliably Create confidence!

Corporate Design

We assist you when designing an individual front panel according to your house rules.



Customer support and teamwork

Support from a team – use our strengths!



As your partners, we are present worldwide!



The PMA product range

Apart from controllers, PMA also supplies all the other components required to close the control loop:

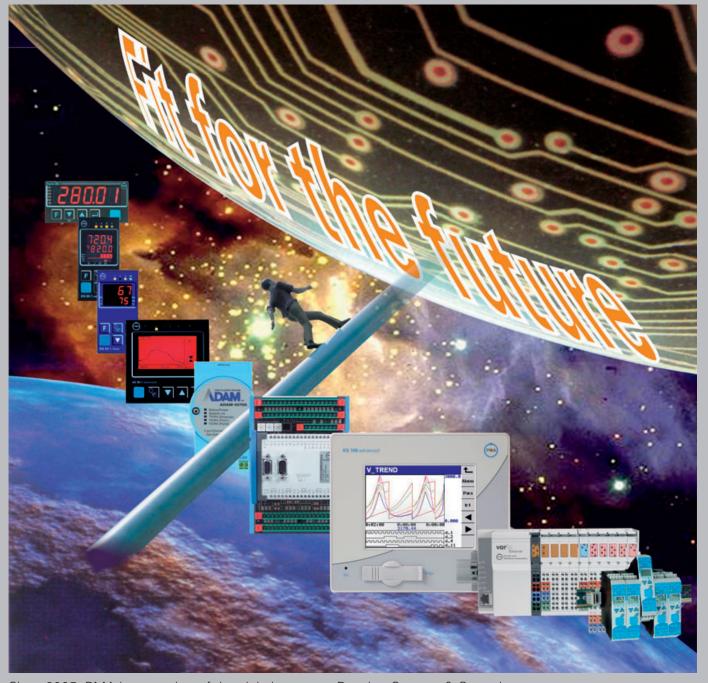
From sensors to actuators, from data monitors up to communication modules.

We support you from the initial idea through product selection and up to the finished solution.

Simply ask us - we are happy to help!

Visit our website for interesting news, useful applications, and the latest downloads.

Contact us directly, our experts are available all over the world.



Since 2005, PMA is a member of the global company Danaher Sensors & Controls. Benefit from our extensive sales and support channels – we would be proud to help you reach your goals!



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