

## New members of the successful micro-browser Web-Panel family: 5.7" and 10.4" MB-Panels with VGA/TFT LCD displays

Eighteen months after the introduction of micro-browser panels, 250 customers are successfully using over 5000 devices. This success justifies our confidence and motivates us to constant expansion and improvement of our product range.



The new 10.4"  
Saia®PCD Web-Panel MB

In 2006, we launched the first 5.7" QVGA/STN micro-browser Web-Panel. One year later, we expanded the offering with the 5.5" QVGA/TFT panel. Now we are completing the next stage of innovation and expanding our range with new 5.7" and 10.4" VGA/TFT panels. However, we have not only extended and improved the display size, resolution and quality, but also functionality. As a result, we have expanded the range of possible uses while offering our customers even better scaling capabilities.

### Brilliant TFT displays with VGA resolution and touch control

The new micro-browser panels are equipped with high quality TFT LCD displays. Colour images are displayed with up to 65536 colours. Even the small 5.7" displays have VGA resolution with 480 x 640 pixels, just like the large 10.4" displays. They allow web pages to be edited once and then displayed and operated without modification throughout, from small 5.7" and 10.4" displays to PC screens. With the higher resolution, even complex system images with high information content can be output to small, low-cost displays. Thanks to the fully transparent touch membrane and TFT-LCD technology, the resultant images are pin-sharp.

### New, powerful CPU platform ready for future demands

The new 5.7" and 10.4" VGA/TFT panels are based on a new CPU platform with the proven Coldfire processor, ample memory and a new, powerful graphics controller. This controls the new VGA/TFT displays while also having enough reserves to be able, in future, to run even larger displays at a still higher resolution. The ample reserves of memory and power available with the Coldfire processor also make this CPU platform a suitable basis for the implementation of future added functions, such as a programmable logic controller or the implementation of broadcast communications protocols like MPI, Modbus, etc. This means that, in future, the micro-browser panels will also be usable with foreign devices, thereby making them web and IT compatible.

### SD flash card holder as accessory

Micro-browser panels already have a generous 4MBytes of on-board flash memory. If this memory is not enough, MB-Panels can be retrofitted with the SD flash card holder: PCD7.RD4-SD. This card holder takes SD flash cards up to 512MB, which are available from SBC. With SD flash cards, almost unlimited memory is available for:

#### – Storing Unicode fonts.

In this way, almost any number of fonts required can be stored in the MB-Panel, including those for languages that demand much memory, like Chinese, and they can be switched to during runtime.

#### – Storage of web pages

In this way, comprehensive web projects can be realized even for PCD controllers with relatively little flash memory. Moreover, for slow serial communications connections, page loading times are also shortened.

In addition, the SD flash can be used as backup storage for the entire MB application and configuration. When a panel is exchanged, the SD flash card is simply plugged into the new panel, making it functional immediately, without the use of specific tools.



Accessories Saia®SD flash  
and SD card holder

**Drywall installation set**

Our micro-browsers are not just for mounting in the control cabinet: they also look very good in the office or living-room, or mounted on a wall.

Mounting sets for both flush and on-wall installation are now available as an accessory for the 5.7" panel (in preparation for the 10.4"). As a result, this innovative technology is not just reserved to the control cabinet for the machine operator, but will also make a contribution to more comfort in the office or at home too.

**Setup extended and improved with a new, modern look**

The Setup menu has been redesigned and now presents a modern, user-friendly look. It is now possible, by means of a particular touch sequence, to call the Setup at any time even during normal operation (without turning the panel off/on) and make any necessary adjustments. In addition to the various possible settings, online help can now also be called. It is also now possible to carry out firmware updates from a central location via an Ethernet network.

**A comprehensive panel family for scalable solutions**

The comprehensive micro-browser panel family offers users scalable solutions for almost any requirements regarding display size, quality, resolution, operation (touch and/or keys), memory, function, mounting, costs, etc.



Mounting set for Saia®PCD Web-Panels MB

Micro-browser panels are suitable for a wide spectrum of applications: in infrastructure automation just as much as in machine control/operation. And all this is also available in custom-built versions. ■



New Setup menu



**Overview of Saia®PCD micro-browser Web-Panels**

	3.5"	5.7"			5.7"		10.4"
	PCD7.D435	PCD7.D457			PCD7.D457		PCD7.D410
	TLCF	BTCF	STCF	VTCF	SMCF	VMCF	VTCF
Display colours	256 colours	16 grey shades	256	65536	256	65536	65536
Size	3.5" TFT	5.7" STN	5.7" STN	5.7" TFT	5.7" STN	5.7" STN	10.4" TFT
Resolution/pixels	QVGA 320 x 240	QVGA 320 x 240		VGA 640 x 480	QVGA 320 x 240	VGA 640 x 480	VGA 640 x 480
Resistive touch-screen	-	yes	yes	yes	yes	yes	yes
F keys, alphanumeric keyboard	12 F keys + keyboard	-	-	-	2 x 6 F keys		-
Backlighting	LED	LED	CCFL	LED	CCFL	LED	CCFL
On-board memory for local web server	4 MB flash	4 MB flash	4 MB flash	4 MB flash	4 MB flash	4 MB flash	4 MB flash
FTP server	yes	yes	yes	yes	yes	yes	yes
SD card interface (up to 1 GB)	option	option	option	option	option	option	option
Ethernet 10/100 MBit/s	HTTP direct/Ether-S-Bus		HTTP direct/Ether-S-Bus		HTTP direct/Ether-S-Bus		
RS 232/RS 485 serial	Serial S-Bus		Serial S-Bus		Serial S-Bus		Serial S-Bus
USB 1.1 slave device	Programming interface						
Keyboard/barcode	1x PS/2	-	-	-	1x PS/2	1x PS/2	1x PS/2
Mounting kits: flush and on wall	yes	yes	yes	yes	yes	yes	yes
Protection type (front)	IP65	IP65	IP65	IP65	IP65	IP65	IP65