



HIRSCHMANN

A Belden Company

Controls

Consoles

SLIs

Sensors

Service

iSCOUT *expert* / iSCOUT IK

Interactive Graphic Consoles



The requirements for the functionality of mobile equipment and systems are becoming more and more complex. In this area of tension stands the operator. He has to be aware and think of a lot of things, and he has to have many things under control. Therefore, a high level of transparency through simple solutions is needed.

This is what Hirschmann's interactive consoles can offer.

Preferably, the graphic consoles are used as part of control and load moment indicator systems in driver's cabs of cranes. However, they are suited as display and operating systems for other mobile applications in the construction, utility vehicles, and agricultural industries as well. Adaptations specific to certain applications can be made on request.

- ▶ QVGA and VGA Displays
- ▶ RTOS - professional real time operating system
- ▶ BestVIEW - adaptive display control system
- ▶ Temperature range -20 °C to +70 °C
- ▶ Data transfer via CANopen 2.0B, ETHERNET, RS 485, RS 232
- ▶ GenerSYS 2.0 compatible

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INTERAKTIVE GRAFIKKONSOLEN –

Features and tools

Models

The interactive graphic consoles are available with 1/4 VGA display (320 x 240 pixels), extended 1/4 VGA display (400 x 240 pixels) and VGA display (640 x 480 pixels) as in-dashboard mounted and on-dashboard mounted models.

Interfaces

The standard interfaces RS 485, CANopen and ETHER-NET can be used for communication with programmable-control systems.

Operating System

The Hirschmann iSCOUT systems feature the professional real time operating system RTOS-UH.

This system makes it possible for the programs to react instantaneously to external events. RTOS-UH distributes the available processor capacity priority based to the individual parts of the program (tasks). In connection with RAM programmed control systems, control and automatic control applications can be realized in a compact and affordable manner. Due to the RTOS-UH, the complete control over the multitasking is always available.

Applications

The ability to connect to virtually every control system on the market as well as the multilingual visualizing software make worldwide applications of the Hirschmann iSCOUT systems possible. The integrated CAN bus interface allows the integration of interactive consoles into a highly efficient decentralized network.



GenerSYS

GenerSYS is an easy to operate, PC based programming tool for the interactive creation and management of graphic user interfaces. GenerSYS can manage up to 1000 picture modules in one graphic object. Up to 120 display objects can be managed in each picture module. The texts for the graphic user interface can be in several languages. The language selection is done online.



iTOOL5

An effective service tool that offers the user system diagnostics and configuration capabilities.






iFLASH

This tool allows a simple data transfer on site. Available for PC using Windows 98 or higher as well as for Windows CE based PDAs.



TECHNICAL DATA

iSCOUT expert





Description	iSCOUT expert	iSCOUT expert 2004	iSCOUT expert compact
			
Type	in-dash / on-dash	in-dash	in-dash / on-dash *
Housing	sheet metal	sheet metal	sheet metal
Protection class			
front	IP 65	IP 65	IP 65
back	IP 20 /IP 65	IP 20	IP 20
Supply voltage	10 ... 36 VDC	10 ... 36 VDC	10 ... 36 VDC
Processor	32-bit	32-bit	32-bit
Program memory	16 MB Flash	16 MB Flash	16 MB Flash
Data memory, battery buffered	•	•	•
Real time clock	•	•	•
Watchdog	•	•	•
Cut-off Relay, 5A	–	–	2
Digital Input	–	–	2
Dimensions (in mm)			
front plate (W x H)	293 x 265,9 mm	372 x 260 mm	206 x 186 mm
cut-out/depth (W x H x D)	270 x 232 x 64 mm	367 x 230 x 63 mm	198 x 178 x 74 mm
Display			
Resolution (pixel)	VGA (640 x 480)	VGA (640 x 480)	1/4 XVGA (400 x 240)
Size	10,4 Zoll (diagonal)	10,4 Zoll (diagonal)	6,5 Zoll (diagonal)
Color	256 colors	256 colors	512 colors
Serial interface			
	CANopen 2.0B RS 232 + RS 485	CANopen 2.0B RS 232 + RS 485	2 x CANopen 2.0B / 1 x Ethernet RS 232 + RS 485 MMC / SD Slot
Operating temperature	- 20 ... + 70 °C	- 20 °C ... + 70 °C	- 30 °C ... + 70 °C (- 40 °C ... + 70 °C) on request
Storage temperature	- 35 ... + 80 °C	- 35 °C ... + 80 °C	- 40 °C ... + 90 °C
GenerSYS compatible	•	•	•

* on request



TECHNICAL DATA

iSCOUT IK

Description	IK 1352	IK 1356	IK 1366	IK 1376	IK 1358 CAN	IK 1368 CAN	IK 1382 CAN
							
Type	on-dash	in-dash	in-dash	in-dash	in-dash	in-dash	in-dash
Housing	sheet steel housing (sealed)	sheet metal	sheet metal	sheet metal	sheet metal	sheet metal	sheet metal
Protection class							
front	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
back	–	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Supply voltage	10 ... 36 VDC						
Processor	16-bit	16-bit	16-bit	32-bit	16-bit	16-bit	32-bit
Program memory	1 MB	1 MB	1 MB	1 MB	1 MB (optional 2 MB)	1 MB (optional 2 MB)	1 MB (optional 2 MB)
Data memory, battery buffered				(optional)			(optional)
Real time clock	–	•	•	•	•	•	•
Watchdog	•	•	•	•	•	•	•
Dimensions (in mm)							
front plate (W x H)	324 x 213 x	180 x 260	192 x 230	206 x 186	180 x 260	192 x 230	206 x 186
cut-out/depth (W x H x D)	110	161 x 241 x	173 x 208 x	200 x 180 x 86	161 x 241 x	173 x 208 x	200 x 180 x 86
	–	100	107		100	107	
Display							
Resolution (pixel)	320 x 240	320 x 240	320 x 240	320 x 240	320 x 240	320 x 240	320 x 240
Size	120 x 92	92 x 120	92 x 120	5,6 Zoll	92 x 120	92 x 120	5,6 Zoll
Color	monochrome	monochrome	monochrome	monochrome	monochrome	monochrome	monochrome
Serial interface	RS 485	RS 485	RS 485	RS 485 / RS 232	CANopen 2.0	CANopen 2.0	CANopen 2.0
Operating temperature	-20 °C ... +70 °C						
Storage temperature	-30 °C ... +75 °C						
GenerSYS compatible					•	•	•