



iSCOUT *mentor* / iSCOUT *mentor* QVGA

Consoles with integrated controls



iSCOUT *mentor* and iSCOUT *mentor* QVGA, as consoles with integrated controls, digital inputs and outputs, as well as CANopen interfaces, offer a compact solution for mobile applications in a tough working environment.



The console forms a central information system which offers the machine operator all the information he needs, in functional form, at a glance. The contrast of the LCD display is automatically adjusted by means of BestVIEW technology. Ambient temperatures and brightness are taken into account. The integrated control unit ensures a rapid processing of the application program by means of its 32 Bit architecture. A CANopen interface allows the construction of a decentralised network. Along with the latest, service-free CANopen sensors, easy, cost-efficient applications solutions can be realised.

Thus, the iSCOUT *mentor* family is the ideal basis for applications, such as, for example, electronic load moment indication (LMI) for telescopic cranes.

- ▶ Programmable according to IEC61131-3 and with C
- ▶ 32 Bit microprocessor technology for rapid control functions and high calculation performance
- ▶ Minimal installation and maintenance costs due to CAN-Bus technology
- ▶ Use of application-specific protocols such as SAE J1939
- ▶ BestView – adaptive display controls for optimal readability
- ▶ Eventrecorder and radio module (optional)



TECHNICAL DATA

Description	iSCOUT <i>mentor</i>	iSCOUT <i>mentor</i> QVGA
		
Supply voltage	10 - 30 V DC	10 - 30 V DC
Digital Inputs	4 (0...30V, also possible as counter)	4 (0...30V, also possible as counter)
Digital Outputs	4 x PWM (50-400 Hz, 2 A, current controlled)	4 x PWM (50-400 Hz, 2 A, current controlled)
In-/Outputs (Configurable)	4 x digital inputs or outputs PWM (50-400 Hz, 1 A)	4 x digital inputs or outputs PWM (50-400 Hz, 1 A)
Housing	on-dash, sheet metal	on-dash, sheet metal
System connector	M23x1, 19-pole Pin	M23x1, 19-pole Pin
Protection class	IP 66	IP 66
Dimensions	181 x 141 x 70,5 mm (L x B x H)	194 x 164 x 81 mm (L x B x H)
Display	LCD, 4 x 20 symbols, 123 x 42.5 mm	STN, black/white, 320 x 240 pixels
Operating temperature	-20 °C to + 70 °C	-20 °C to + 70 °C
Storage temperature	-30 °C to + 80 °C	-30 °C to + 80 °C
Keyboard (illuminated)	9 buttons / 5 indicators	9 buttons / 5 indicators
CAN-Bus	CANopen 2.0B	CANopen 2.0B
Connection	Plug M12x1, 5-pole Socket	Plug M12x1, 5-pole Socket
Cut-off relay	2 (max. 8 A)	2 (max. 8 A)
Service interface	RS 232, DB9, Pin	RS 232, DB9, Pin
Processor	Motorola MPC 561, 40 MHz, 32bit, FPU	Motorola MPC 561, 40 MHz, 32bit, FPU
SRAM	1 MB	2 MB
Flash-EPROM	4 MB	4 MB
Warning signal	Horn (90 dBA) built-in	Horn (90 dBA) built-in

Software

iSCOUT *mentor* and **iSCOUT *mentor* QVGA** can be programmed both with 1131 Pro direct with all the IEC 61131-3 editors, as well as with C. For special applications the **Configuration Manager** using Windows is available. All the characteristics of the new calibration software, Phoenix, can be integrated into the LMI.

Service Interface

By means of a serial interface using the program **iTOOLS** the following information can be displayed:

- ▶ status of limit switch
- ▶ analogue values

- ▶ internal computational values
- ▶ events with date and time
- ▶ device version number

Optional Extras (on request)

- ▶ Event recorder, battery buffered RAM
- ▶ 900 MHz radio module (can be integrated)
- ▶ Key status displays (LED, 3 colour)
- ▶ Second CAN interface with CANopen or application specific protocol like SAE J1939
- ▶ Extended low temperature range -30 to +70 °C

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