

HMI DISPLAY PANELS

HMI-07xx-02



Optional Accessories



KEY FEATURES

- + 7" High-Resolution TFT Display
- + High-Brightness IPS Panel with Wide Viewing Angle 178
- + 10 Soft Keys + PCAP Touch
- + Automatic Brightness Control
- + Robust Automotive Design
- + IP Video for Multiple Cameras
- + CAN Bus Communications

The HMI-07xx-02 is a 7-inch industrial Human Machine Interface designed for control and monitoring applications in special vehicles and mobile machinery. The unit features a high-brightness TFT IPS display, robust front protection and CAN-based communication interface for integration with Emitter control systems - MMX. Includes integrated ambient light sensor for automatic brightness control. One or multiple IP cameras can be connected via Ethernet input.

Ideal for cabin and machine-side operation

Suitable for installation inside the vehicle cabin or on the external operator panel, enabling direct control of pump systems, pressure governors, superstructure indicators and parameters, valve actuation, lighting control and system diagnostics, ensuring intuitive and reliable operation in all working conditions.

SPECIFICATIONS

POWER

Supply Voltage	6-36 V DC (nominal 12 VDC or 24 VDC)
Current	0.85 A @ 12V and 0.45 A @ 24V maximum, no outputs active
Electrical Protection	overvoltage, transients, reverse polarity, load dump

INTERFACES

CAN	2x CAN
USB	1x USB 2.0, for firmware update
ETHERNET	10/100 Mbps for IP video cameras

FEATURES

Kernel	NXP™ ARM 64-bit 1200Mhz, 8 Gbyte
Display	TFT IPS 7", 1000:1, Brightness 800 cd/m ² , 800x480, viewing angle ±88°
Protective glass	1.8 mm Anti-Glare, Hardness 6H
Touch screen	multi-touch PCAP touch screen
Keypad	10 soft keys (programmable), backlit
Buzzer	Yes
Day/Night operation	automatic – integrated ambient light sensor

I/O

Config. Inputs	5 V/32 V, 0-30 mA, 0-2.4 kΩ, Frequency measurement 1 Hz-50 kHz
Digital Outputs	Positive switching (high-side), max. 1 A, PWM 1-5 kHz

ENVIRONMENT

IP Class (IEC529)	IP65, IP66 and IP67
EMC Conformity	ISO 7637-2:2011, ISO 16750-2:2012, ISO 10605:2008, ESD Immunity
Temperature Range	storage -40° to +85°C (-40° to 185°F) operating -40° to +85°C (-40° to 185°F)

ENCLOSURE

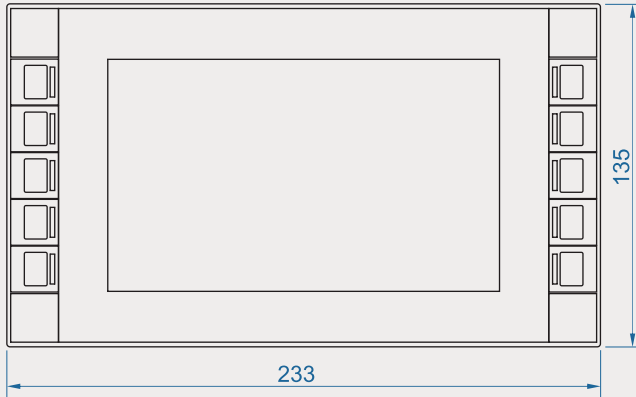
Housing Material	PBT + PC plastic, flame retarded
Mounting	RAM mount arm or mounting bracket
Mating Connector	Deutsch DT06-12SA and DT06-12SB

SIZE & WEIGHT

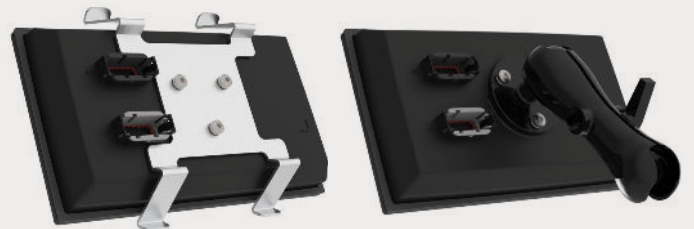
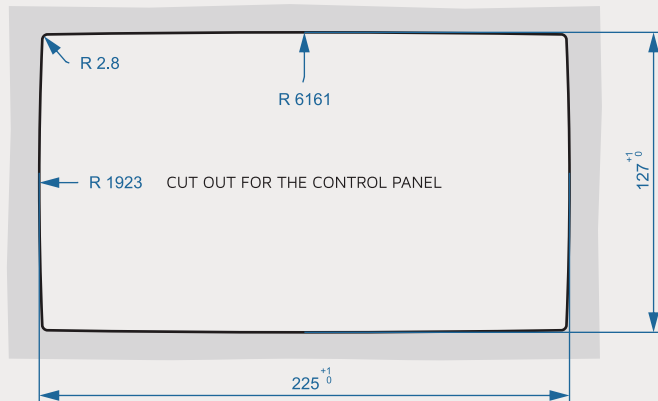
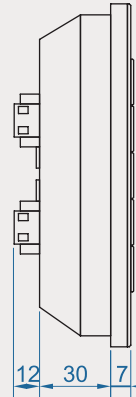
W x H x D	233 x 135 x 49 mm, without mating connector
Weight	0.7 kg

DIMENSIONS

FRONT VIEW



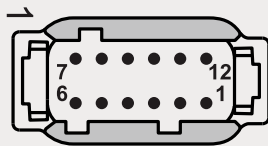
SIDE VIEW



The HMI can be installed in-dash using a fixation bracket or mounted on a RAM mount arm.

CONNECTIONS

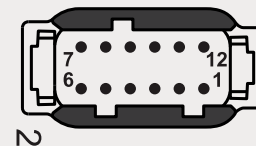
Connector Pinout for **CONNECTOR-1** Grey



DEUTSCH DT06-12SA

PIN	Description	PIN	Description
1	POWER +12/24 V	12	USB VBUS
2	POWER GROUND	11	USB DATA +
3	IGNITION +12/24 V	10	USB DATA -
4	SWITCHED OUTPUT 1	9	USB Ground
5	SWITCHED OUTPUT 2	8	CAN 1L
6	CAN 1 SHIELD	7	CAN 1H

Connector Pinout for **CONNECTOR-2** Black



DEUTSCH DT06-12SB

PIN	Description	PIN	Description
1	CONFIGURABLE INPUT 1	12	ETHERNET TD- / RD-
2	CONFIGURABLE INPUT 2	11	ETHERNET TD+ / RD+
3	-	10	ETHERNET RD- / TD-
4	-	9	ETHERNET RD+ / TD+
5	GROUND	8	CAN 2L
6	CAN 2 SHIELD	7	CAN 2H

PRODUCT CODE

Ordering code example:

H	M	I	-	0	7	P	U	M	P
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HMI - LCD	LCD SIZE	APPLICATION
	04: 4 INCH	CAB: CABIN CONTROL
	07: 7 INCH	PUMP: PUMP CONTROL
	10: 10 INCH	FJ: FOAMJET CONTROL
		DF: DIGIFOAM CONTROL
		CAFS: CAFS SYSTEM CONTROL
		/: GENERAL USE