



HYDRAULIC SOLUTIONS PROVIDER

# TERMINAL 5" TFT

## CANOPEN MONITOR



**General description**

The Terminal with CAN-bus/CANopen communication is used for the ELECTRAULICS control system as the basic system communication unit but can also be used as a stand-alone general terminal for other type of systems for monitoring and control.

The TFT graphical display has a resolution of 320x240 pixels, With ELECTRAULICS PC-TOOL™ including the program Terminal Design™, user defined menus and symbols are easily designed for the terminal to meet individual system requirements and customer needs.

The unit contains 3 digital inputs that can be user defined and is provided with a separate CAN-bus SAE J1939 port that can be used for integrated control and monitoring of external systems such as electronically controlled diesel engines and powershift gearboxes.

The terminal have an internal error log that is automatically transferred to the Master units central error log via the CAN-bus line. The central error log in the Master-unit can be viewed on the terminal display. 2 diagnostic LEDs in the front panel shows the status for the CPU (green) and the CAN-bus (yellow) communication.

The Terminal is designed to be mounted in cab-environment, protected against rain and water splash.



**Technical Data**

**General data**

Supply Voltage	11-30 VDC
Operating temp.	-20° C to +60° C
Max. current power output	0.5 A
Housing material	Aluminum profile/ ABS-PC plastics
EMC class	Automotive.
Shock	IEC 60068-2-27 Es, 30g
Bump	IEC 60068-2-29 Eb, 10g
Vibration	IEC 60068-2-64, Random 10-250 Hz
Test level, IEC-tests	IEC 60721-3-5 Class 5M3
Weight	0.50 kg
Connectors	AMP Multilock® 12 pin

**I/O data**

I/O-type	Qty	Data
Digital input	0-max 3	Digital input, +24V

**Data communication**

CAN-1	CANopen/CAN 2.0B, 500 kbps
CAN-2	CAN SAE J1939/CAN 2.0B, 250 kbps
PC-communication	USB 1.0

**Programming tools**

Hydreco ELECTRAULICS PC-TOOL™ graphical programming tool including Terminal Design™

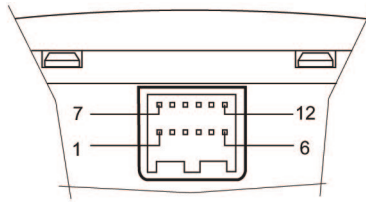
**Display**

Type	5" TFT 65K colour
Resolution	QVGA (324x240).
Brightness	500 cd/m2, LED backlight
Buttons	Membrane, illuminated.

**Ordering Information**

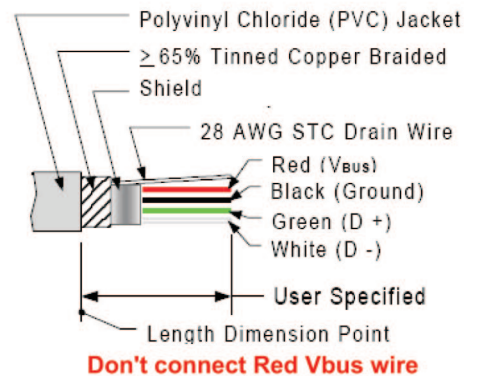
TERMINAL 5" TFT compl. Part No. 1020 2020

## Connector pin assignments



Pin No.	Designation	Function
01	USB -	USB Standard - White D + wire
02	USB +	USB Standard - Green D + wire
03	DIGITAL IN 00	user defined I/O-type
04	DIGITAL IN 01	user defined I/O-type
05	DIGITAL IN 02	user defined I/O-type
06	Vbatt GND	Power supply GND for Terminal, 0V
07	USB GND	USB Standard - Black Ground wire
08	CAN1_L	CAN-bus signal L, CANopen
09	CAN1_H	CAN-bus signal H, CANopen
10	CAN2_L	CAN-bus signal L, CAN SAE J1939
11	CAN2_H	CAN-bus signal H, CAN SAE J1939
12	Vbatt SYS	Power supply input for Terminal, +24VDC

## Prepared Termination



## Mating connector specification

Mating connector	Data
AMP Multilock, Part No. Hydreco Part No.	174045-2 5015 1004
Contacts AMP, type	Cu-Sn, 0.2-0.6 mm <sup>2</sup> 20-24 AWG
Loose contacts, AMP Part No. Hydreco Part No.	175062-1 5015 1005
Crimp tool, AMP Part No. Hydreco Part No.	0-0091577-1 5015 1009

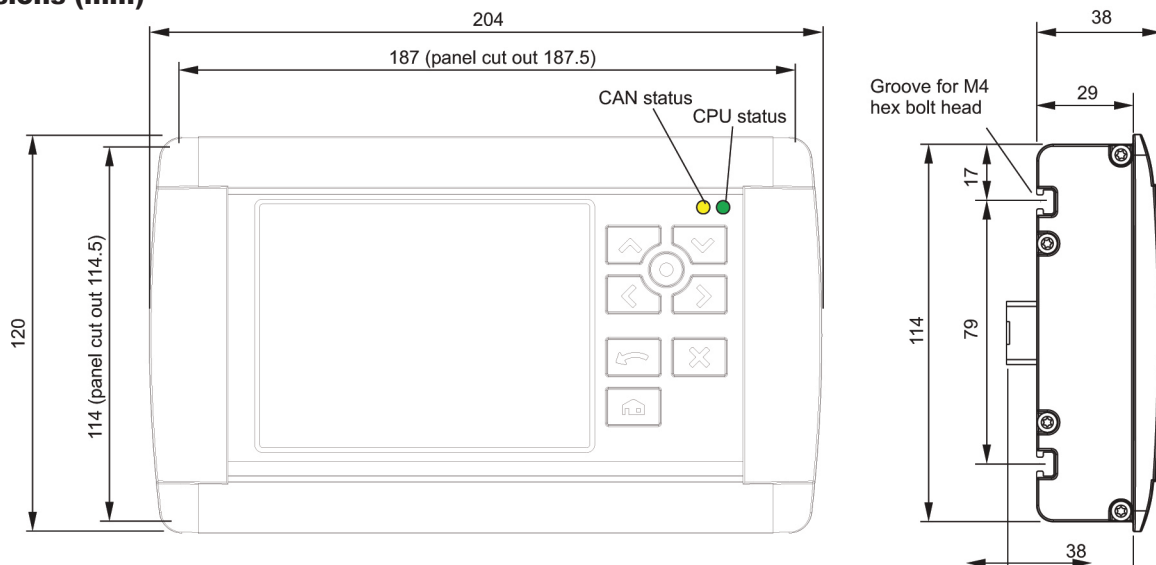
(Mating connector not supplied with unit)

## Accessories

Name	PartNo.
Dashboard holder kit compl. including:	5010 1500
-Clamp	5010 1501
-Hex bolt, M4 x 20 (2x)	5010 1502
-Loch washer, DIN 6798A ,4.3 fzb (2x)	5010 9003
-Plastic knob, M4 (2x)	5010 1503

Reference Data Sheet No.: 2500 0006

## Dimensions (mm)





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