imc Graphics Terminal

Technical Data

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The imc Graphics Terminal is an optional operating and display unit which can be used as an alternative to the PC.
In many applications (e.g. in machinery and test vehicles), it significantly simplifies the measurement system. The display can even work in locations which no PC or display unit can withstand, e.g. at -20°C or +70°C.
It reduces operation of the measurement system to a few (e.g. loading of pre-configured device setups, Start-, Stop etc.), and enables flexible and quick graphical online display of measured data as well as of values computed online.
The Display can be freely configured in terms of its functions and display styles using the Display Editor imcDevices V2.5.

Order code:	**1081083**	**320 x 240 pixels in 16 gray scale**
	1081082	**320 x 240 pixels in 65536 colors**

Structure
Robust, compact metal frame with membrane touch panel (15 buttons) and display with (female) DSUB-9 connector for connection to imc CRONOS-PL/-SL

- Housing size approx. 306 mm x 170 mm x 25 mm (without connectors)
  Display area: approx. 11.5 cm x 8.6 cm
  Weight: approx. 1.0 kg

Connections

- DSUB socket for connection to measurement device
- 3-pin (metal) terminal for external power supply
- The B/W Display can also be supplied via the connection cable to the measurement device.

Power supply

- Supply voltages 9-36 V (6-50 V upon request)
  With the gray scale imc Graphics Terminal, supply via the measurement device (using connection cable) is also possible.

Operating conditions

- Operating temperature: -20… +70 °C
  -40… +70 °C (upon request)

For further info, contact:
Berlin: +49 - 30 - 46 70 90 - 0

System prerequisites:

- imc measurement system of the following models (**without internal Display**):
  - imc CRONOS-PL (only the models with 400 kHz aggregate sampling rate)
  - imc CRONOS-SL
  - Devices of the C-Serie
  - busDAQ-X
  - SPARTAN-Tx/Ux(-CAN) (only color display)
  - SPARTAN-T
  - imc C1
  - imc CRONOS-PL-Fx
- Measurement system equipped with Personal Analyzer- Online FAMOS
- imc Devices Software V2.5

Possible display styles for measured values:

With a graphical Display Editor[1], display screens can be constructed of the elements listed below. The configurable membrane panel buttons can be used to define multiple pages which the user can turn.
With all the display styles listed below, the

- object sizes,
- background, graphics and font colors,
  (depending on style, 16 gray scale or 65536 colors)
- font and font size (10 different options)

can be set.
The available display styles are:

- Curves with
  - configurable scaling
  - fixed or scrolling time axis
  - legends (on/off)
- Bar charts
  - color-coded according to measurement value range
  - min/max display by means of slave pointer
- Pointer instruments (tachometer display)
  - color-coded according to measurement value range
  - min/max display by means of slave pointer
- Text
  - selectable font, font properties bold, cursive, 3 available fonts
  - vertical, horizontal orientation with right- or left-justification or centered
- Digital states in the form colored squares
- Numerical output boxes
  - representation of digital states as a number
  - numerical format: decimal, hexadecimal, floating point (fixed and variable digital point)
- Display of time (digital display)

Operation via Display

- Opening of pre-configured device setups
- Release of triggers by means of virtual bits
- Numerical input for editing trigger thresholds, etc.
- Performance of adjustments or calibration (as of imc Devices V2.6 R3)

Included accessories

- Modem cable in the extended temperature range for connection to imc CRONOS-PL/-SL
- AC/DC power supply unit
- POWER plug

[1] Included in the software as of the version imc Devices 2.5

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imc HRDisplay Technical Specs

Parameter	Color display	S/W
Display	5.7″ TFT	5,7″ FSTN
Colors	65536	16 gray scale
Resolution	320 x 240	
Backlight	CCFL	LED
Orientation	6 o'clock	
Contrast (typ.)	350:1	5:1
Brightness (typ.)	>280 cd/m^2	60 cd/m^2
Dimensions	192 x 160 x 30 (mm, W x D x H)	
Weight	approx. 1 kg	
Supply voltage	9-36 V (6-50 V a. A.)	from measurement device 9-36 V (6-50 V a. A.)
Power consumption	approx. 6.0 W for 100 % Backlight approx. 3.6 W for 50 % Backlight	approx. 1.9W for 100 % Backlight approx. 1.4W for 50 % Backlight
Operating temperature	-20..+70 °C (-40..+ 70 °C upon request)	
Terminals	DSUB-9 (female) for connecting to the measurement device 3-pin (metal) terminal for external power supply	
System prerequisites	imc measurement devices from Groups 2/3 per *imcDevices* manual software *imcDevices* as of Version 2.5	
Miscellaneous	150MHz ARM9 processor, 8MB Flash, 16MB RAM, Embedded Linux data transfer from measurement device via BlueTooth (upon request) membrane touch panel with 15 buttons robust metal frame non-reflecting glass panel protecting the display	

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