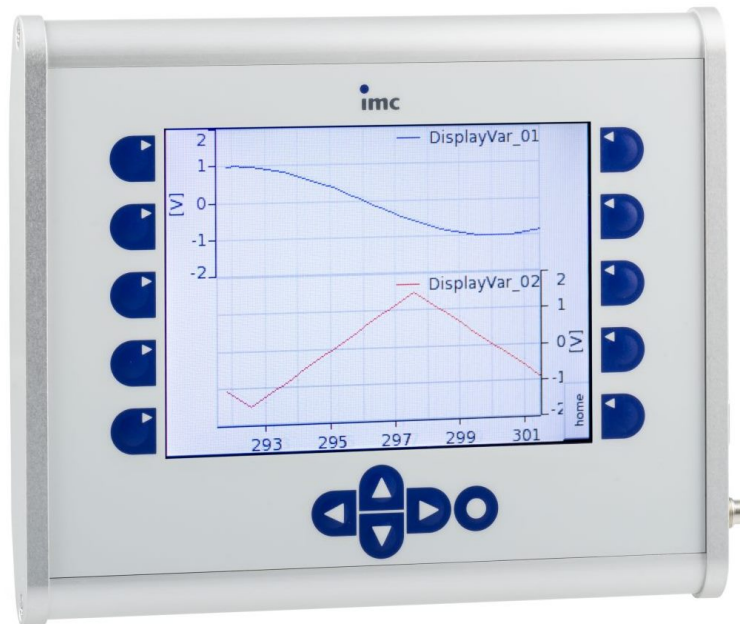# imc Color Display

The imc Color Display 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. 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.

Structure

Robust, compact metal frame with membrane touch panel (15 buttons) and display with (female) DSUB-9 connector for connection with imc measurement system

Possible display styles for measured values

With a graphical display editor, display screens can be constructed of the elements listed below. The configurable membrane panel buttons can be used to define multiple pages.

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

Order code article no.

ACC/Color Display   320 x 240 pixels in 65536 colors (external Display)   1350271

Technical Specs - Color Display

Parameter	Color Display	
Display	5.7² TFT	
Colors	65536	
Resolution	320 x 240	
Backlight	LED	
Contrast (typ.)	600:1	
Brightness (typ.)	450 cd/m^2	
Connection cable	RS232, max. 2 m	
Dimensions (W x H x D)	192 x 160 x 30 mm (w/o connectors)	
Display area	approx. 11.5 x 8.6 cm	
Weight	approx. 1 kg	
Supply voltage	9 V to 32 V$_{DC}$ 6 V to 50 V$_{DC}$ upon request	
Power consumption	approx. 3 W with 100% back light	
Temperature range	-20°C to +60°C	operating temperature
	≤+85°C	module interior temperature
Rel. humidity	80% up to 31°C, above 31°C: linear declining to 50%, according DIN EN61010-1	
Terminal connections	DSUB-9 (female) for connection to measurement device 3-pin Binder (metal) ESTO RD03 series 712, 3-pin for external current supply	
Miscellaneous	membrane touch panel with 15 buttons robust metal frame anti-reflection coated glass pane to protect display	

Included accessories article no.

- Modem cable in the extended temperature range
- ACC/POWER-SUPPLY   AC/DC power supply unit   1350043
- ACC/POWER-PLUG4   power plug   1350052