

TERMEX 230

TERMEX 230 is an intrinsically safe graphics panel. With its versatile functions and interfaces, it is ideally suited as control and display panel or as machine panel. By use of **TERMEXpro**, the graphical Windows software package for TERMEX units, project design and parameterization can be done easily and cost efficient. Several optional connections for barcode readers, scales, expansion keyboards and digital inputs and outputs are available as options.

Ex-classification according to ATEX 95, directive 94/9/EG:	
Type of protection:	Intrinsically safe (acc. to EN 50020), EEx ib IIC T4
	II 2G EEx ib IIC T4 DMT 02 ATEX E 239
	Dust explosion proof ago to ENEGGG4
	Dust explosion proof acc. to EN50281 II 3 D X T135°C IP65 in case of mounting ABG-1 or ABG-
	3
Degree of protection acc. to EN60529/IEC	
Degree of protection front panel:	IP 65
Degree of protection rear panel:	IP 20
installed in polyester case ABG-P:	IP 54
installed in stainless steel case ABG-V2A:	IP 65
Calibration certificate:	
Calibration certificate TERMEX 230:	Acc. to DIN EN 45501
	No. D09-95.32 Addendum 2
	As a module for class III and IIII scales
Display:	040 400
Resolution:	240 x 128 pixels,
	4 standard fonts, additional fonts can be loaded
	12 lines x 40 characters, character height 4.5 mm
	8 lines x 26 characters, character height 5.5 mm 4 lines x 20 characters, character height 12 mm
	4 lines x 20 characters, character height 12 mm
	Text and graphics freely designable
	Background bitmaps can be loaded
	Pixels, lines, blocks, borders and bar graphs can be
	designed.
	LCD, supertwisted nematic, with or without backlight
	Active display area: 148 mm x 74 mm
Front plate:	
Material:	Anodized aluminium
	Display cutout with non-reflecting glass cover
	Polyester front foil, printed on reverse
Keyboard:	Short-stroke keys
	Number block
	5 function keys (dual assignment with Shift key)
	Either standard layout or customized layout with insertable label strips (ex works)
LEDs:	idooi otiipo (ox worko)
ON .	to indicate the power supply
COM	to indicate a host communication fault
1	to indicate that messages are pending
AZ	to indicate that alphabetical input modes are allowed
Project design:	
Configuration:	Integrated setup menu for setting all device parameters
Project design data:	Downloadable from a PC via a serial port
	PC port (RS232) connected to mains buffer stage,
	type ENT-DC-xxx



Technical data

Ports:	
Port parameters :	TERMEX <> ENT: 20 mA current loop, passive/passive
(TERMEX <> ENT <> host)	ENT <> host: RS232 / 20 mA current loop,
(TERMIEX C=>> ENT C=>> HOSE)	active/passive, settable / optional RS485
	1200 - 19,200 baud, settable (setup)
	Parity: even, odd, mark, space, none (setup)
	7 / 8 data bits, settable (setup)
	1 / 2 stop bits, settable (setup)
	Default: 9600 baud, 8 data bits, even parity, 1 stop bit
Interfece protection	MPI Siemens S7
Interface protocols:	Profibus DP, Siemens /S7
	3964R/RK512, various
	AS511, Siemens S5
	MODBUS/RTU slave, various
	MODBUS/RTU master, various
	DF1, Allen-Bradley
Davinhaval interference	ASCII EXTEC
Peripheral interfaces:	Cable scanner EX-Dragon-D101
	Radio scanner EX-Dragon-M101
	Expansion keyboard K36/KL36
	Various container and platform weighing
	Digital input / output modules
Firmware and functional test:	
Firmware:	The firmware is stored in a FLASH chip and is updatable.
	The latest version can be downloaded from the Pepperl +
	Fuchs web site.
	The firmware can be loaded onto TERMEX 230 terminal
	using the TERMEXpro Loader software.
Functional test:	Integrated detection of all hardware components during
	start/reset and self-test.
Dimensions weight:	
Front plate (WxH):	288x144mm
Cutout (WxH):	277x137mm
Mounting depth:	72mm incl. terminals, without connector
Weight:	Approx. 1,5 kg
Ambient conditions:	- · · · · · · · · · · · · · · · · · · ·
Operation:	-20°C - +50°C
Storage:	-20°C - +70°C
Rel. humidity:	0% - 75%, without condensation, 48h endurance test
EMC declaration	
The manufacturer, Pepperl+Fuchs, certifies t	hat this product conforms to the relevant EMC directive.
Interference emission:	EN 55011 : 1998 + A1 :1999
Noise immunity:	EN 61000-6-2 : 1999
Accessories:	•
Digital input/output modules:	Interface modules can be integrated into the TERMEX
	terminals configured with 3 digital inputs and 3 digital
	outputs
Expansion keyboard K36/KL36:	The TERMEX 230 can be equipped either with a TERMEX
	K36 keyboard or with a TEMREX KL36 with LEDs
Stainless Steel enclosure, wall mount:	Dimensions in mm: 346 x 210 x 104
Stainless steel enclosure, desktop mount:	Dimensions in mm: 316 x 210 x 104
Plastic enclosure:	
	Dimensions in mm: 340,5 x 170 x 91
Further housings on request!	