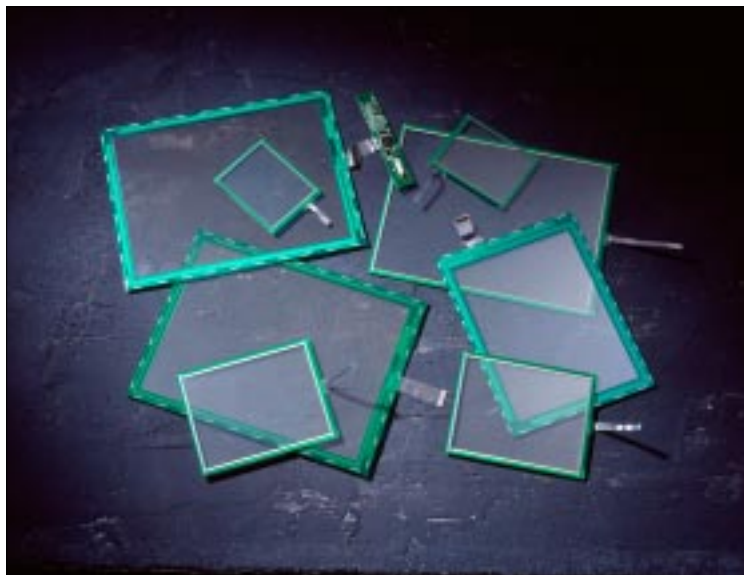


# PEN INPUT PANEL/TOUCH PANEL

## ANALOG RESISTIVE FILM INPUT PANEL

### FID-550/FID-554 SERIES



#### ■ FEATURES

- Superior long life (FID-550 Series)
  - Unique construction method offers improved life over typical technology type
- Excellent specifications and high quality
  - Transparency: 80% typ.
  - Anti Newton ring technology
  - High reliability materials
- Pen touch and Pen/finger touch types available
  - Pen type is protected from input by hand
- Each size available
  - Standard sizes are 5 types (8.4 to 12.1 inch)
  - Small size is available in FID-554 series (\*FID-554 series is typical technology type)
- Lower power consumption than other methods (electromagnetic, capacitance etc.) especially MPU  
Note: FID-550 Series (Unique detection technology type)
  - The method of sensing data is different from the typical technology type. Longer life can be achieved because the FUJITSU unique detection method with a resistive layer only on the glass surface is used. (The typical detection method uses a resistive layer on the upper film.)

#### ■ MAIN APPLICATIONS

- Pen personal computer
- POS terminal, Banking terminal
- Windows® CE devices
- Personal information tool (PDA, HPC)
- Handheld Terminal
- FA equipment

# FID-550/FID-554 SERIES

## ■ CONSTRUCTION

- Input panel and control MCU
- <Optional>
- Original input pen
  - Device driver for PC

## ■ SPECIFICATIONS

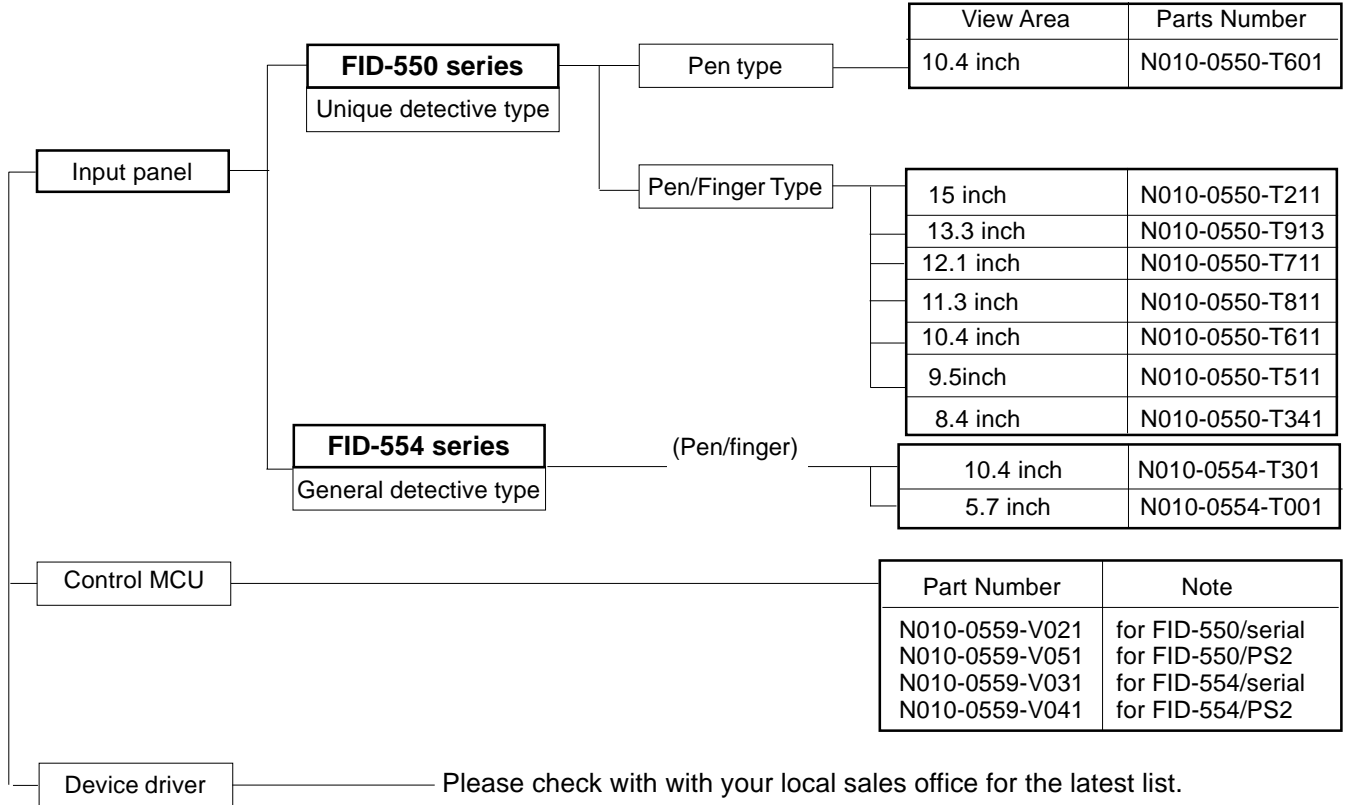
Item			Specification				Note
			FID-550 Series		FID-554 Series		
			Pen	Pen/Finger	Pen	Pen/Finger	
Mechanical	Operation Force	Pen	100 g max.	80 g max.	100 g max.	80 g max.	*1
		Finger	500 g min.	80 g max.	500 g min.	80 g max.	*2
	Transparency		80% typ. (83.5% typ. : OPTION)				
	Haze		5% typ. (3% typ. : OPTION 83.5%)				
	Hardness		2H min.				*3
	Linearity		1.5% max.				*4
	Writing Life		1 M words min.		100 K words min.		*5
	Knocking Life		10 M operations min.		1 M operations min.		*6
Electrical	Power Supply		+5 V or +3.3 V DC				
	Resolution		0.1 mm (0.004 in.)				
	Sampling Rate		192 pps max.				*7
	Transmission Rate		9,600 bps				
	Consumption		20 mA max.				*8
		Operating mode	15 mA typ.				
		Sleep mode	0.4 mA typ.				
Insulation Resistance		10 M ohm min.					
Environment	Operating Temperature		-5 to 80°C		-5 to 60°C		
	Storage Temperature		-50 to 85°C		-30 to 70°C		
	Operating Humidity		20 to 90% RH				*9
	Storage Humidity		10 to 90% RH				

Notes: Above specifications are based on our standard controller.

- \*1: Push by plastic (R0.8)
- \*2: Push by silicon rubber (R8, H = 60°)
- \*3: by pencil
- \*4: Based on location accuracy spec.
- \*5: Force by plastic (R0.8), 350 g
- \*6: Force by silicon rubber (H = 60°), 200 g, 5 Hz
- \*7: Variable by command
- \*8: at  $V_{CC} = +5 V$
- \*9: Noncondensing

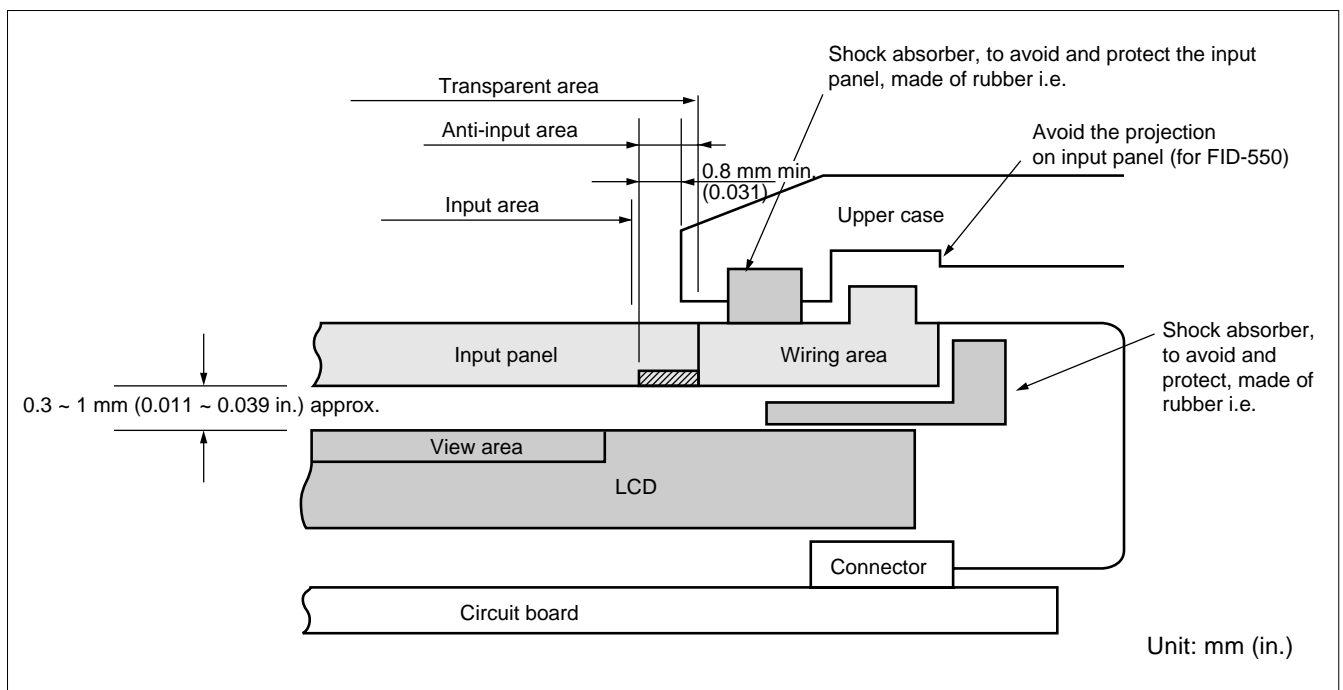
# FID-550/FID-554 SERIES

## ■ PARTS NUMBERS



- Note: 1. The thickness of glass panel is 1.1 mm (0.043 in.)[1.8 mm (0.070 in.) for FID-550 and 0.7 mm (0.027 in.) for FID-554 are available conditionally.]  
 2. For FID-550 series, the input panel and the control MCU should be used together.

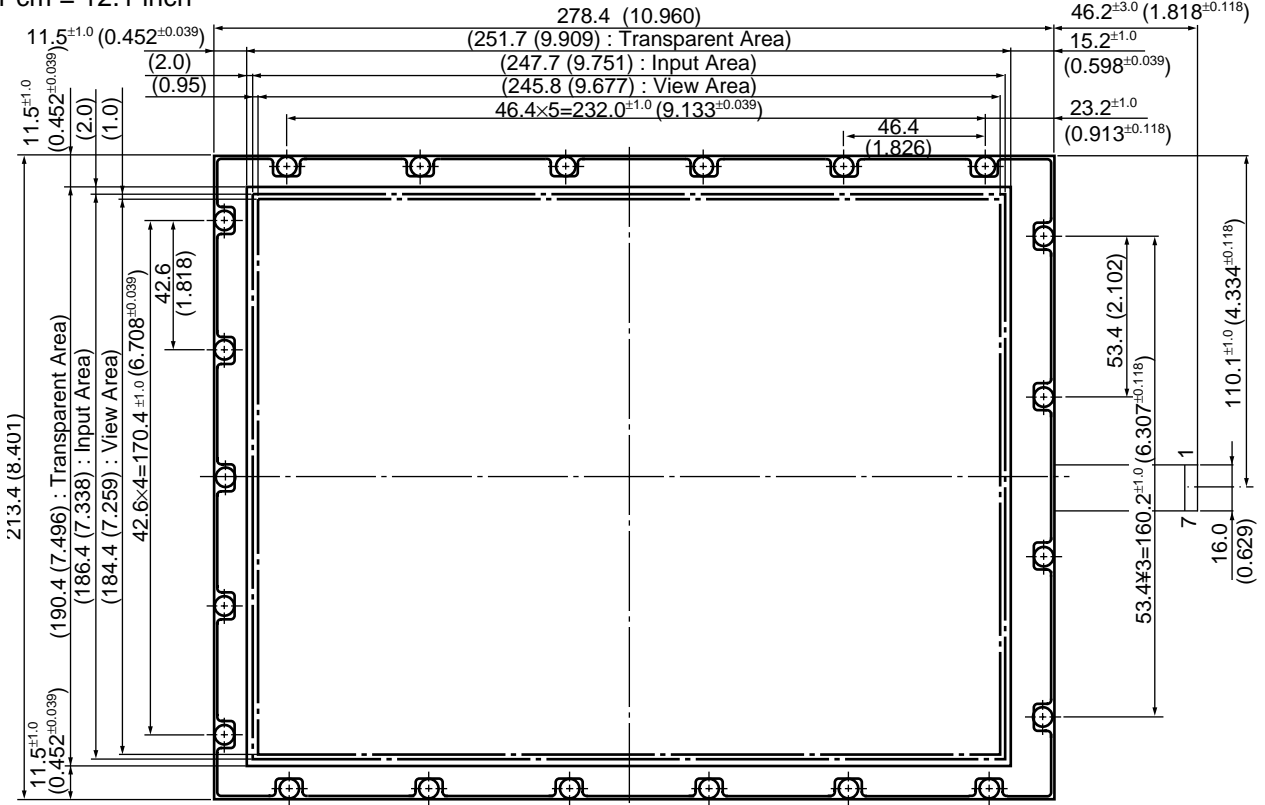
## ■ RECOMMENDED MOUNTING STRUCTURE



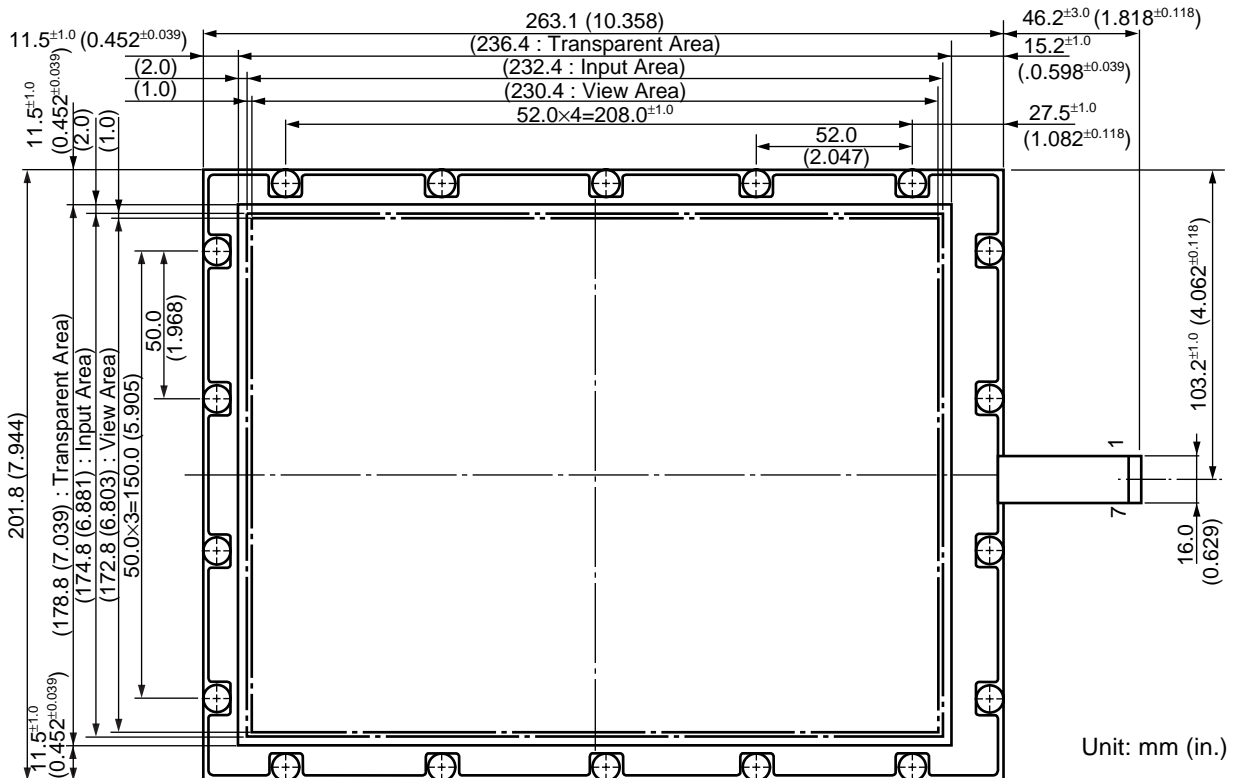
# FID-550/FID-554 SERIES

## ■ DIMENSIONS

- 31 cm = 12.1 inch



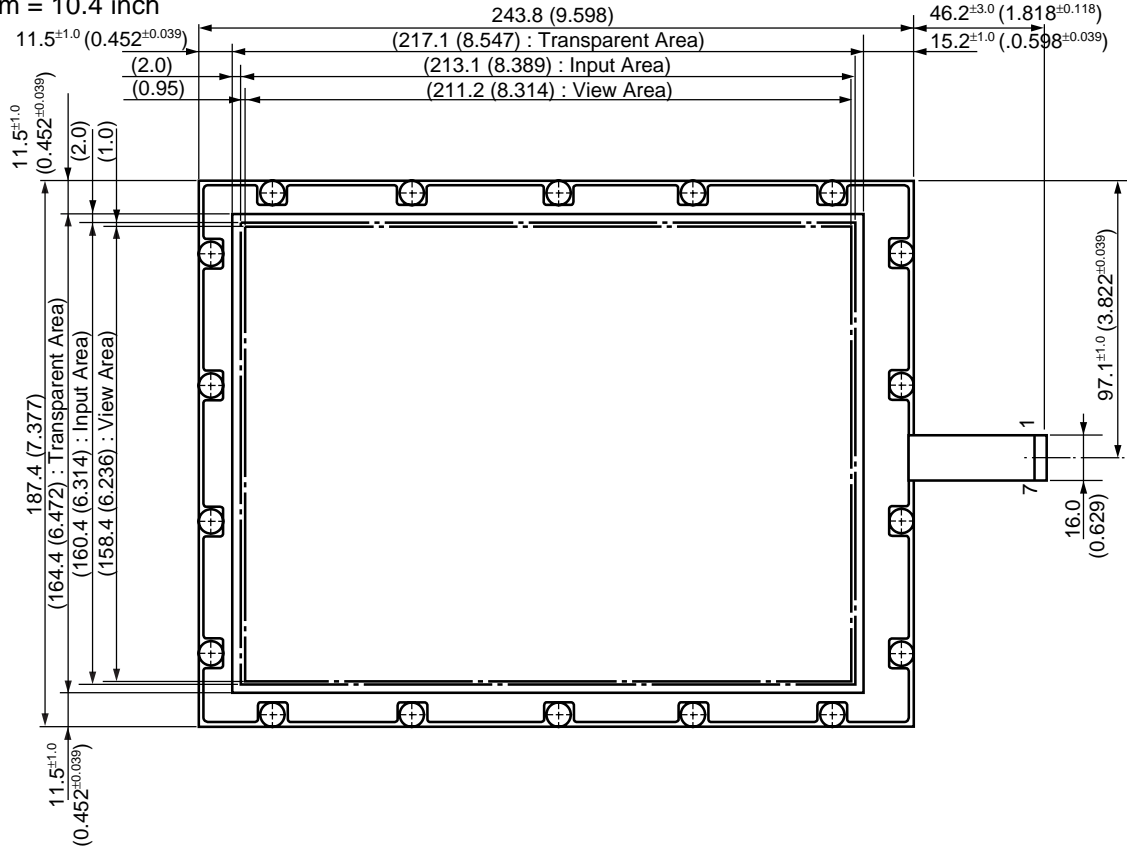
- 29 cm = 11.3 inch



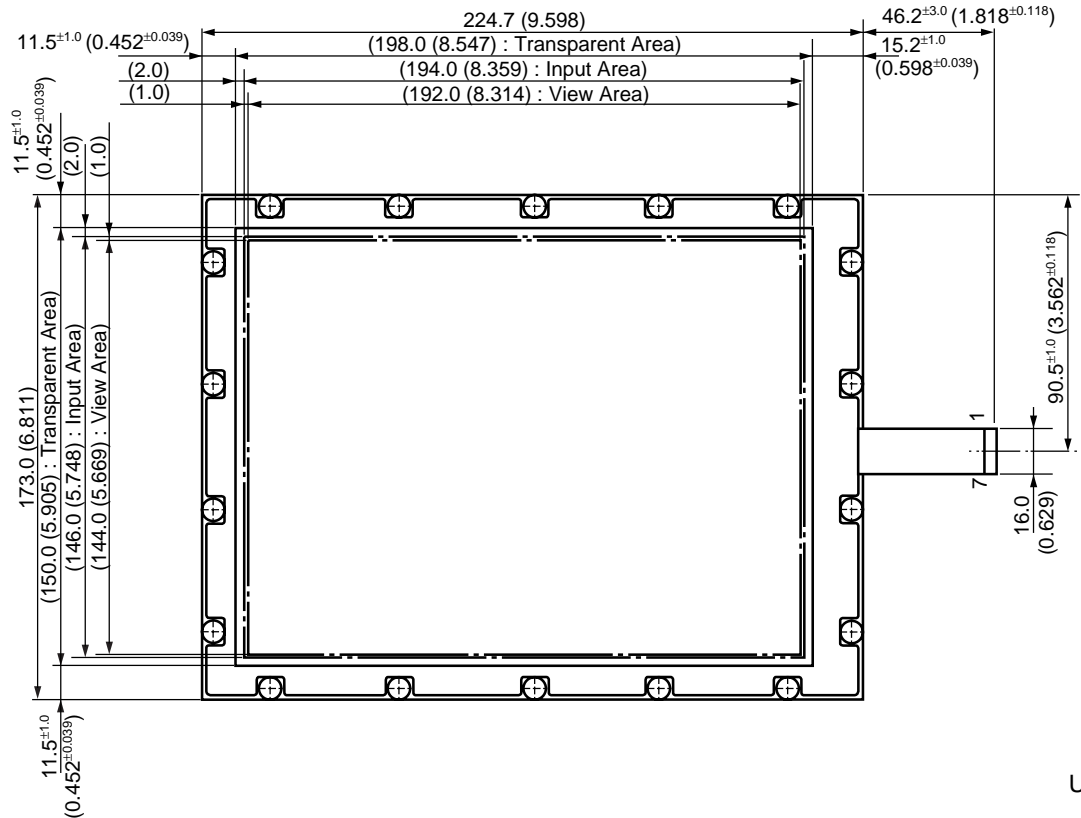
Unit: mm (in.)

# FID-550/FID-554 SERIES

• 26 cm = 10.4 inch



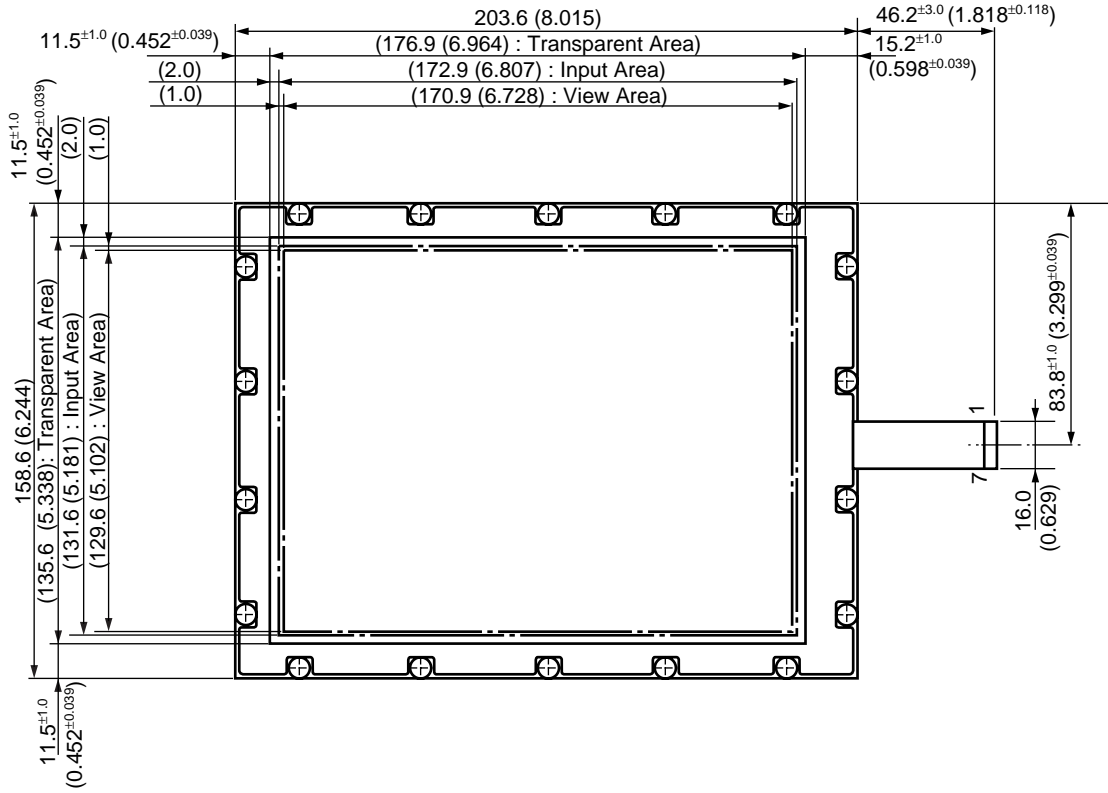
• 24 cm = 9.5 inch



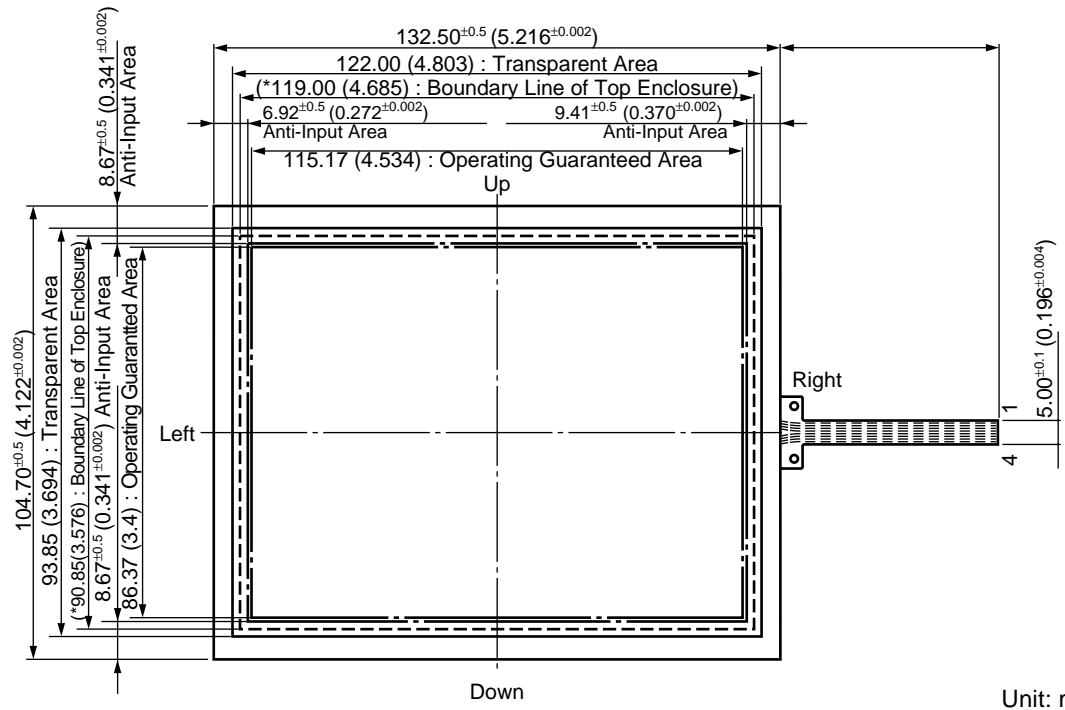
Unit: mm (in.)

# FID-550/FID-554 SERIES

• 21 cm = 8.4 inch



• 14 cm = 5.7 inch



# FID-550/FID-554 SERIES

## ■ SPECIAL MODELS

Reduced operating force models available in 7-wire pen/finger types: 10.4 inch (N010-0550-T621) and 12.1 inch (N010-0551-T242).

## ■ CONTROLLER BOARDS

Available for all types of Fujitsu Touch Panels.

Type	Part Number	Interface
4-wire	N16B-0558-B301	PS/2
7-wire	N16B-0558-B201	Serial

## ■ EVALUATION KIT

Available evaluation kits offer development personnel the opportunity to prototype with little effort. An evaluation kit consists of an input panel, interface board, Windows® driver diskette, and stylus. Please contact your local sales office for details.

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