

Nokeval



FD200 series

User Manual

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Document information

Device Scope:	FD200A4 (4-digit device) FD200A6 (6-digit device)
Case versions:	1.0 to 1.0
Document Type:	manual
Document ID:	3059
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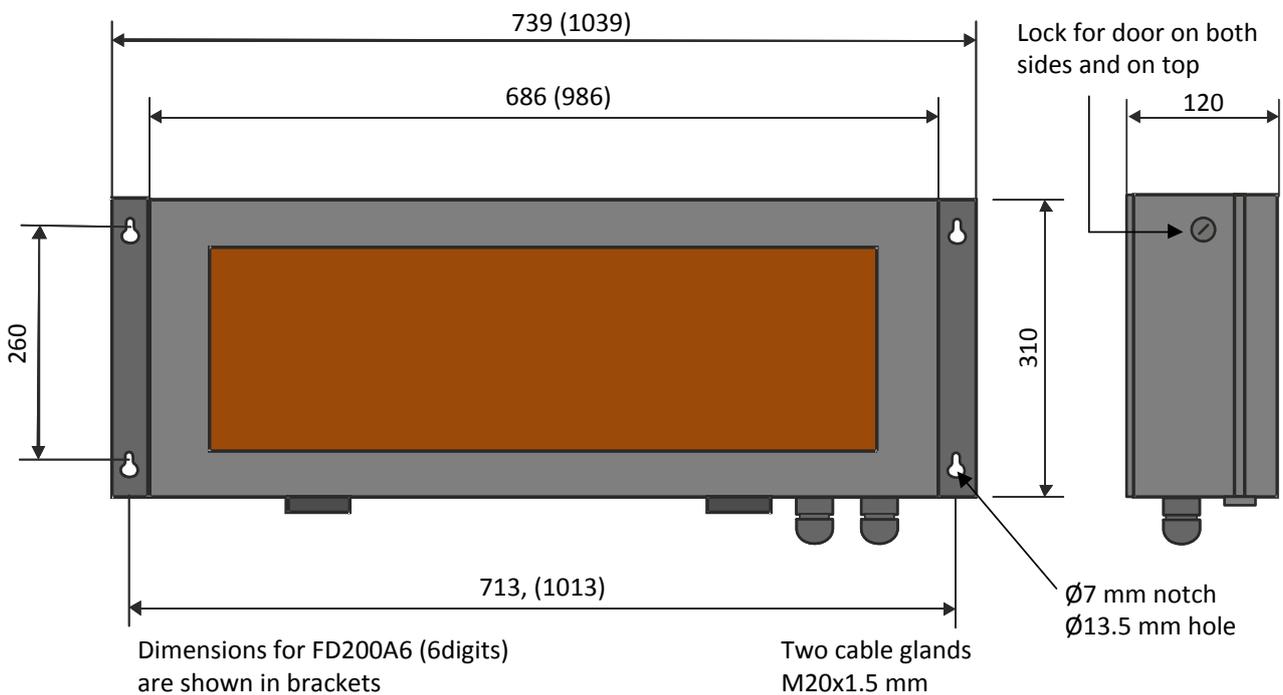
FD200A4 and FD200A6 field displays

Introduction

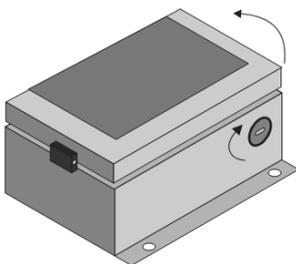
The FD200 series include 4 and 6 digit models. Digit size is 200mm. The displays are based on input cards of the panel meter series 2000 giving over 100 combinations. The unit has wide power supply range of 41...265 VAC.

This manual covers enclosure information and installation of the unit. Input cards and programming are covered in corresponding 2000-series panel meter manual. All 2000-series panel meter combinations are valid for this series.

Mounting



The display unit is mounted with four screws, one at each corner. The diameter of the screw must be between 5.5 and 6.5 mm. The unit may be mounted to a steel or aluminum structure, to wood with minimum thickness of 20 mm, or to a material of equivalent or better strength.



To open the case door

There are quick locks on the both sides and on top of the case. The door can be released by turning side locks towards the rear of the case and turning the top lock counterclockwise.

Warning! Only a qualified electrician is allowed to open the enclosure.

Symbols and markings

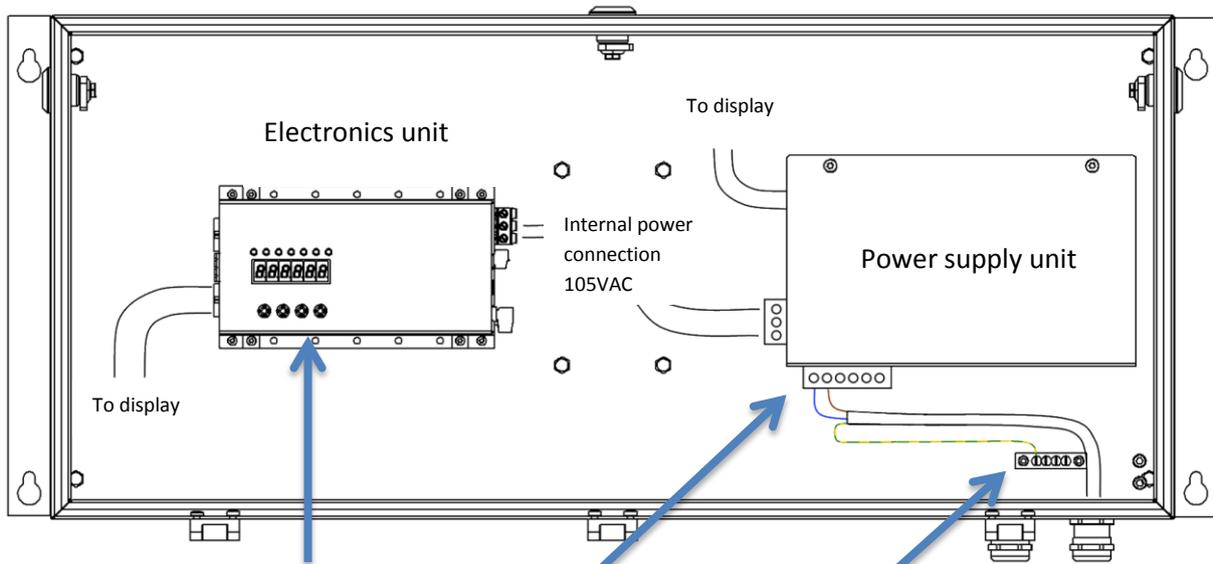


Protective earth connector



Alternating current

Power supply connection



Small display and buttons for configuration

PE - Protective earth.
Free wire length must be longer than on N and L lines

Two cable glands

0 VAC 48 VAC 100...110 VAC 115...127 VAC NC 230 VAC



Notice! Do not strip the wires more than necessary in order to avoid exposing dangerous voltages. Tie the N and L wires so that if one of them gets accidentally disconnected, the wire end can't reach the other connectors.

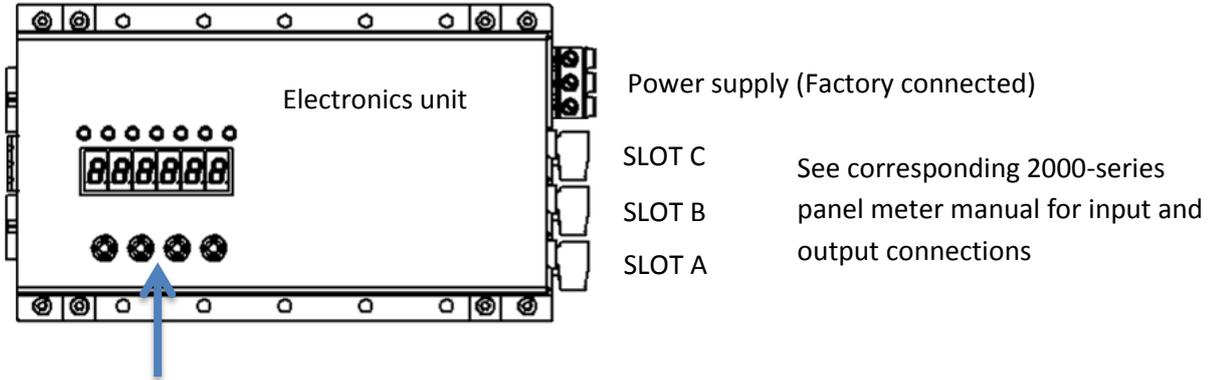
Connect the N line to 0 VAC terminal connector and connect the L line to appropriate terminal connector depending on voltage used.

Configuring

The display unit is configured with the small display and buttons inside the main case.

Electronics unit

To reach electronics unit open the main case as explained before. Use the small display and four buttons to configure the display unit. Programming and input/output connections are explained in 2000-series panel meter manual for each different device type.

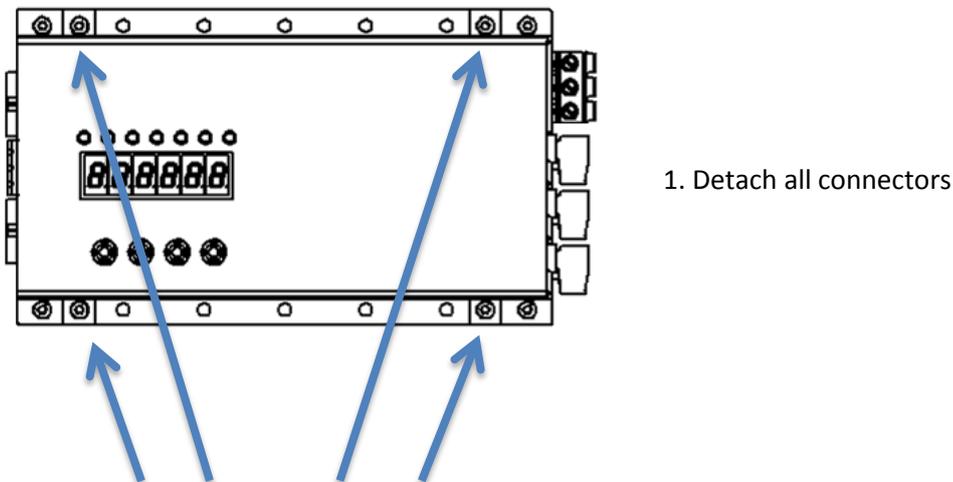


Buttons and display.

Programming is explained in corresponding 2000-series panel meter manual.

Jumper configurations

If corresponding 2000-series manual informs that jumpers need to be changed, see below instructions to reach the jumpers.



2. Open these 4 screws to open the electronics case lid to reach internal measurement cards

Specifications

Enclosure			
Indoors installation	Allowed	Dimensions	See page 3
Outdoors installation	Allowed	Protection	IP65
Altitude	Max 2000 m	Pollution degree	3
Operating temperature	-10...+50 °C	Weight, 4 digits	12 kg
Storage temperature	-30...+50 °C	Weight, 6 digits	15 kg
Humidity	< 90 %Rh		

Power supply			
Nominal voltage	48 VAC ±15% or 100...110 VAC ±10% or 115...127 VAC ±10% or 230 VAC ±15%	Pre-fuse (not required)	48 VAC: >2 AT 100...110 VAC: >1 AT 115...127 VAC: >1 AT 230 VAC: >0.5 AT
Frequency	45...65 Hz	Installation category	CAT II
Power	<50 VA	Protection	Enclosure: Class 1, protective earth. Inputs: Class 2, reinforced insulation.

Regulations	
Electrical safety EN 61010-1	
Classification	Fixed equipment, permanently connected equipment, with protective earth

See additional input and output card specifications from corresponding 2000-series manual.

Nokeval

Nokeval Oy, Yrittäjätu 12, 37100 Nokia, Finland,
Tel. +358 3424800, fax. +358 3422066, sales@nokeval.com, www.nokeval.com