

TECHNICAL DATA

Fluke PQ400 Electrical Measurement Window



REDUCED RISK

Permanently installed voltage and current connections can be accessed without opening the panel door

INCREASED EFFICIENCY

Quickly connect your logger or analyzer and begin taking measurements faster than ever

EASY INSTALLATION

A standard step drill bit and electro-hydraulic hole punch provide the simple means to quickly mount the window in the panel The Fluke PQ400 Electrical Measurement Window enables the connection of three phase measurement equipment to energized panels, without the need to open the panel door, or wear supplemental personal protective equipment (PPE)¹

Compliance without compromise. Safety without sacrifice.

The Fluke PQ400 gives you access to the critical power quality and energy data you need, all while decreasing testing time and helping you to maintain safety.

- Reduce the risk of arc-flash and electrocution, while increasing the safety of your personnel
- Decrease maintenance costs and reduce downtime by making critical power quality and energy measurements without opening the panel door, enabling logging and monitoring at any time—without disrupting operations
- Reduce work permit requirements and processes by reducing the hazards associated with taking measurements on open panels, saving time and effort
- Increase measurement efficiency and reduce the need for arcflash PPE¹, saving time, increasing efficiency and increasing operator comfort

Features

- Permanently connected voltage and current sensors located inside the electrical panel allow you to make power quality and energy measurements using the external access points without opening the panel door, reducing operator risk
- Voltage and current connections for three-phase voltages, neutral and ground cover most measurement scenarios
- Automatic probe detection for Fluke 1740 and 1730 series power quality and energy loggers and compatible clamps, eliminates the need to open cabinet to check the clamp model
- Full 360 degree rotation allows the PQ400 window to be oriented in any direction
- Simple installation using a step drill bit and electro-hydraulic hole punch (114.3 mm, 4.5 inch diameter)
- CAT IV, 600V and CATIII 1,000V rating according to IEC61010-2-30
- Compatibility with standard 4mm shrouded safety-socket voltage test leads makes it easier to make voltage connections, increases safety by reducing the risk of accidently touching live electrical components, and reduces the need for purchasing specialized voltage leads

¹Comply with local and national safety codes. Use personal protective equipment (approved rubber gloves, face protection, and flame-resistant clothes) to prevent shock and arc blast injury where hazardous live conductors are exposed.

FLUKE ®

How it works

The Fluke PQ400 Electrical Measurement Window is a permanently installed interface that provides technicians with near instant access to electrical panels for making critical power quality and energy measurements. The PQ400 installs using a standard step drill bit and electro-hydraulic hole punch (114.3 mm, 4.5-inch hole diameter), and allows users to make threephase voltage, current and ground connects covering most measurement configurations. Once installed users can simply unlock the window cover, lift the lid, and connect the voltage leads of the logger or analyzer. Then, connect the leads for the current sensors and start making critical measurements. Once complete, simply remove the voltage and current connections from the front panel interface and lock the window lid, leaving the internal connections in place for future use.



Specifications

General specifications		
Maximum voltage between any voltage terminal and earth ground	1000 V	
Maximum voltage between any current terminal and earth ground	30 V	
Safety		
General	IEC 61010-1: pollution degree 2	
Measurement	IEC 61010-2-030: CAT IV 600 V / CAT III 1000 V	
Dimensions		
Outside	148 mm x 187 mm x 23 mm (W x H x D) (148 mm x 370 mm x 19 mm with cover opened)	
Inside	140 mm x 158 mm x Di (W x H x D) Di = 58 - thickness of panel door in mm	
Supported electrical enclosures		
Enclosure	UL 50/NEMA environmental type 1 (Type 12 when PQ400 cover is closed)	
Panel thickness	Max. 3.5 mm (10 gauge)	
Environment		
Operating/storage temperature	-25 °C to 60 °C (-13 °F to 140 °F)	
Humidity	10 % to 90 % in dependency of temperature according to IEC 60721-3-3 Class 3K6 (modified):-25 °C to 35 °C: 10 % to 90 %, 50°C: max. 35 %, 60°C: max. 23 %	
Altitude		
Operating	2,000 m (up to 4000 m derate to CAT II 1000 V, CAT III 600 V, CAT IV 300 V)	
Storage	12 000 m	
Ingress protection		
Rating	IEC 60529: IP67 with cover closed, IP50 with cover opened and all connectors attached	
Vibration	IEC 60068-2-6 , MIL-PRF28800F: Random vibration class 2	
Weight	2.1 kg (4.6 lb)	



Voltage				
Input				
Number of inputs	5 (A/L1, B/L2, C/L3, N, and earth/ground)			
Wire gauge	Solid/flexible: 0.25 mm ² to 1.5 mm ² (AWG 24 to AWG 16)			
Voltage	Max. 1000 V			
Fuse	2 A 1000 V 1.5 A ² s, 10 kA IR (A/L1, B/L2, C/L3, N)			
Output				
Connectors	5x 4 mm safety terminals, 3x red for A/L1, B/L2, C/L3, 1x black for N, 1x green for earth/ground			
Load current	Max. 1 A rms			

Current	
Input/output	
Connectors	5x 4-pin circular compatible with Fluke 354x FC, 173x, and 174x power and energy loggers (these loggers can all be powered from the measured voltage up to 500V)



Current inputs for installing measurement probes inside the electrical panel





Ordering infor	mation	115777 57 57 50 000 /4 DV	TI 1 15 'TI 00001
Ordering information		117XX-FLEX6000/4PK	Fluke-17xx iFlex 6000A 36in, 4 pack
Fluke-PQ400, Power Quality Window*		I40S-EL3X	Fluke-17xx I4OS-EL 4OA clamp-on current transformer
Fluke-PQ400/B, Power Quality Basic** I17XX-FLEX2M-M2M4P, male-male cable 2m for con-			
nection of Fluke-17xx iFlex®current probes (4pcs).		I4OS-EL3X/3PK	Fluke-17xx I4OS-EL 4OA
I17XX-FLEX2M-M2M1P male-male cable 2m for connection of Fluke-17xx iFlex [®] current probes, (1pcs).			clamp-on current transformer, 3 pack
I17XX-BNC-M2M, Fluke-17xx 4pin male to BNC male cable 2m (lpcs)		I400S-EL	Fluke-17xx I400S-EL 400A clamp-on current transformer
I17XX-BNC-M2F, Fluke-17xx 4pin male to BNC female cable 0.1m (1pcs)		I400S-EL/3PK	Fluke-I400S-EL 3PK, 17xx
Fluke-PQ-MARKER, cable marker set 3P+N+PE			400A clamp-on current clamp, 3 pack
* Fluke PQ400 contents: PQ400 enclosure, 4 x male-male cable 2m for connection of Fluke-17xx iFlex®current probes, cable marker set 3P+N+PE, cable ties and instruction sheet.		Additional accessories f	
** Basic version does not include cables, cable ties or markers.		products	
		I430-IFLEX-TF-II*	6000A Fluke 430 Thin iFlex 61cm (24in)
Additional accessories for Fluke 173x and 174x products		I430-IFLEX-TFII-4P*	6000A Fluke 430 Thin iFlex 61cm (24in) 4 pack
117XX-FLEX1500	Fluke-17xx iFlex 1500A 12in	I430-FLX-TFII-12*	6000A Fluke 430 Thin
117XX-FLEX1500/3PK	Fluke-17xx iFlex 1500A 12in, 3 pack	1400 PV V PPVV 40	iFlex 30cm (12in)
I17XX-FLEX1500/4PK	Fluke-17xx iFlex 1500A 12in, 4 pack	I430-FLX-TFII-48	6000A Fluke 430 Thin iFlex 122cm (48in)
I17XX-FLEX3000	Fluke-17xx iFlex 3000A 24in	I400S*	Fluke I400S-EL 400A clamp-on current transformer
I17XX-FLEX3000/3PK	Fluke-17xx iFlex 3000A 24in, 3 pack	I5S*	5A AC current probe
I17XX-FLEX3000/4PK	Fluke-17xx iFlex 3000A 24 in, 4 pack	I5SPQ3*	5A AC current probe 3 pack for 430
I17XX-FLEX6000	Fluke-17xx iFlex 6000A 36in	* Requires I17XX-BNC-M2F to connect probe to PQ400	
I17XX-FLEX6000/3PK	Fluke-17xx iFlex 6000A 36in, 3 pack		

Fluke. Keeping your world up and running.®

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OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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