

1740 Series

comparison chart



		Obsolete Fluke memo boxes			NEW Fluke 1740 Series		
		1743	1744	1745	1742	1746	1748
Measurement methods	61000-4-30	Class B			Class A 3rd ed		
Inputs	Measurement	3 V 4 A			3 V 4 A		
Inputs	Aux input (analog inputs)	-			2 Analog 2 BLE (Fluke Connect modules)		
Sample rate		10.24 kHz			10.24 kHz		
Basic Measurements	Volt		●			●	
	Amp		●			●	
	Hz		●			●	
	Power (rms/full)		●			●	
	Power factor	PF, DPF, TAN ϕ			PF, DPF, TAN ϕ		
Energy	Energy		●			●	
	Forward reverse		-			●	
	Peak demand		-			●	
	Demand interval		-		5, 10, 15, 20, 30 min, off		
Advanced measurements	Mains signaling	-		●	-		●
	Flicker		●			●	
	Startup inrush		-			-	
	Voltage unbalance	-		●	-		●
	Current unbalance	-		●	-		●
	Power (fund)	-		●	-		●
	Power non fund.	-		●		●	
	Power unbalance & non fund.	-	-	-	-		●
	Energy loss calc.		-		-		FEA+
Harmonics	Distortion harmonic	THD			THD THC		
	Distortion inter-harmonic		-		-		TID
	Harmonics (V&A)	-		●	-		● (10 min)
	Harmonics angles		-			-	
	Power harmonics		-			-	
	Inter Harmonics		-		-		●



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Events	List: Events dips, swells, interruption, rapid voltage changes, inrush and mains signaling	Dips, swells and interruptions			-	●	
	Sliding event ref.	-			-	●	
	Waveform deviation trigger & event list	-			-	-	●
	Waveshape: Dips, swells and interruption	-			-	-	●
	Waveshape rapid voltage changes	-			-	-	●
	Waveshape inrush event	-			-	-	●
	RMS profile: Dips, swells and interruption	-			-	-	●
	RMS profile: Rapid voltage changes	-			-	-	●
	RMS profile: Inrush event	-			-	-	●
	RMS profile: Main signaling	-			-	-	●
	Transients cycle kHz	-			-		
	Waveshape: Wavefom deviation	-			-	-	●
	RMS profile Waveform deviation	-			-	-	●
	Phasor diagram	FC live	-			-	●
	PQ health	-			-	●	
	EN 50160	-	●		-	●	
	GOST 32144 2013	-			-	●	
	3s PQ data	-			-	●	
	Program PQ limits	●	-	-	-	●	
Measurement standards	IEC 61000-4-7	-			Class I		
	IEC 61000-4-15	-			Class FI		
	IEC 62586-1	-			PQI-A-PI		
	IEC 62586-2	-			●		
	IEC 61000-2-2	-			●		
	GOST R 51317-4-xx	-			Class A		
	IEEE 1459	-			●		



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Reporting/ limits standards reporting via FEA+ or FC cloud (TBA)	EN 50160	●				FEA+	
	D-A-CH-CZ (TOR)	●				Amps harmonics only in FEA+ (report Q2)	
	ITIC	-			FEA+		
	ANSI	-			FEA+		
	CEBEMA	-			FEA+		
	IEEE 519	-			licence option - Incls 3 s harmonics interval		
	GOST 32145	-			FEA+		
Data formats	PQDIF	-			FEA+		
Time sync Interface	GPS, NTP, IRIG B	-			NTP standard, GPS module optional		
	USB	-			A, Mini B		
	Internal USB	-			2 x A		
	Ethernet RJ45	-			●		
	Wifi	-			2	2	2
	BLE bluetooth	-			Opt		1
	Ext I/O port	-			Accessories, GPS		
	Eternet fiber optic	-			-		
	RS-232/485	RS-232			-		
Recording	Local logging (trend)	●			●		
	Trend interval, avg. time	10 s..10 min			1 s..30 min		
	Recording duration	39 days			1 min .. >1 year		
	Memory	8MB			>= 1.5GB		
	Event list	-			-		Dips, swells, interruptions, rapid voltage changes and inrush
	RMS recordings 1/2 cycle	-			-		●
	Event waveforms	-			-		●
PC software		PQLog			FEA+ with config tool		
Powering	Power from measurement input	●			●		
	Battery	-		5 hr	3 hr		

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up and running.®*



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