TECHNICAL SPECIFICATION

Photovoltaic measurements		
Function	**Measuring range**	**Accuracy**
Voltage	20.0 ... 199.9 VDC 200 ... 1999 VDC	±(1 % of reading + 2 digits) ±1 % of reading
Current	0,10 ... 0,99 ADC 1,00 ... 9,991 ADC 10,00 ... 39,99 ADC	±6 digits ±(1 % of reading + 3 digits) ±1 % of reading
Electrical installation measurements		
Insulation resistance Roc-, Roc+		
Um = 250 V d.c.	0.12 ... 19.99 MΩ 20.0 ... 199.9 MΩ	±(5 % of reading + 3 digits) ±10 % of reading
Um = 500 V d.c., 1000 V d.c. and 1500 V d.c.	0.12 ... 19.99 MΩ 20.0 ... 199.9 MΩ 200 ... 999 MΩ	±(5 % of reading + 3 digits) ±5 % of reading ±5 % of reading
Insulation resistance Roc		Calculated value
Continuity, 200 mA	0.00 ... 19.99 Ω 20.0 ... 199.9 Ω 200 ... 1999 Ω	±(3 % of reading + 3 digits) ±5 % of reading ±10 % of reading

General	**Main unit MI 3114**	**Remote unit A 1785**
Display	Colour TFT display, 4.3", 480 x 272 pixels with touch screen	128x64 dots matrix display with backlight
Power supply	Li-Ion, 14.4 V, 4400mAh, non-removable	9 VDC (6x1.5 V battery or accu, size AA)
Overvoltage category **Protection classification** **Pollution degree** **Degree of protection**	CAT II / 300V Reinforced insulation 2 IP 54 (cover closed) IP 40 (cover opened)	 IP 40
Altitude	up to 4000 m	
Memory	Memory card slot, microSD card, up to 512 GB	Number of memorized results: > 3000, circular buffer
Connectivity **RS232** **USB** **Bluetooth** **Wi-Fi**	 1 port, DB9 female USB 2.0, standard Type-B v4.2 BR/EDR and BLE specification 802.11 b/g/n (802.11n up to 150 Mbps) (Only for communication with A 1785 - PV Remote WL)	 1 port, PS2 USB 2.0, standard Type-B 802.11 b/g/n (802.11n up to 150 Mbps) (Only for communication with PV Main Unit)
Size (l x h x w)	310 x 130 x 250 mm	140 x 80 x 230 mm
Weight	4.4 kg	1 kg

ORDERING INFORMATION



Picture of MI 3114 PS set

Standard set MI 3114 ST
- Instrument MI 3114
- A 1790 BLU Test lead, Blue, 3m, 2.5mm2
- A 1790 RED Test lead, Red, 3m, 2.5mm2
- A 1792 Test lead, Green, 3m, 0.75mm2
- S 2146 Set PV MC4 to banana adapters 1500 V
- A 1509 Test lead, Black, 50m, 0.75mm2
- A 1012 Test lead, Green, 4m, 0.75mm2
- A 1309 Crocodile clip, Green
- A 1014 Test probe, Black
- A 1015 Test probe, Blue
- A 1016 Test probe, Red
- A 1727 Communication cable, 1m, USB type B/A
- A 1728 Power cable, 2m, 3x0.75mm2
- A 1551 Soft padded carrying bag, Size: L
- SW 1201 Metrel ES Manager (MESM)*
- P 1000-EU Licence key basic
- Calibration certificate for MI 3114
- User Manual

Pro set MI 3114 PS
- Standard set MI 3114 ST
- A 1785 PV remote unit
- A 1833 PV temperature sensor
- A 1846 PV Reference cell V2
- 2x A 1835 Clamp for attaching accessories
- A 1791 Carrying strap with tightening buckle
- S 2080 6 Rechargeable batteries 1,2 V, 2100 mAh, type AA
- A 1548 Power supply adapter 0,5A/12V**
- Calibration certificate for A 1785

** Metrel ES Manager can be downloaded free of charge from Web server*
*** In some countries replaced with national specific version of A 1569*

OPTIONAL ACCESSORIES

Photo	**Order No.**	**Acc. decription**
	A 1530	G clamp Dia=27mm
	A 1552	Soft padded carrying bag Size: XL
	P 1403	3-year Metrel Smart Cloud PRO subcription • Metrel Cloud Reports • Metrel Cloud Storage (24 GB)

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Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.
Subject to technical change without notice.

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