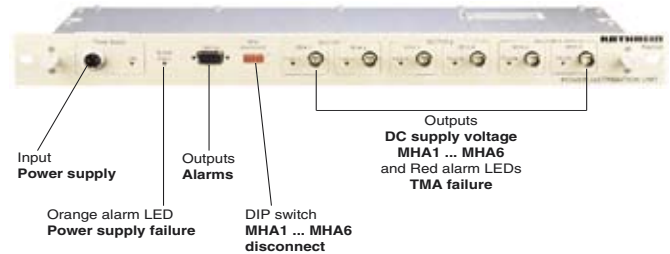


The PDU provides DC supply voltage and alarm interfacing for up to 6 TMAs / MHAs (Tower Mounted Amplifiers / Mast Head Amplifiers) with current window alarming.

- Suitable for low DC power requirements, e.g. KathreinDTMA 782 10301 (UMTS) or 782 10312 (GSM1800)
- Alarm signals available on SubD 9-pin connector and LEDs
- Bias Tees and cable sets for connection of up to 6 Bias Tees for servicing 6 TMAs (or 3 DTMA's = double TMAs) are available as accessories



Alarm interface function: Under normal operating conditions each TMA pulls the nominal current from the PDU. In case of failure when a TMA consumes a current outside the specified alarm window, then an internal TMA circuit pulls an increased alarm current. Once the respective TMA failure detection threshold is registered by the PDU, then the following alarms are activated:

1. The DC supply voltage for the defective TMA is switched off.
2. The corresponding red alarm LED lights up.
3. The contacts 4 and 5 on the SubD 9-pin connector are closed. In addition, the respective pins 1 (TMA1), 2 (TMA2), 3 (TMA3), 6 (TMA4), 7 (TMA5), or 8 (TMA6) are grounded. This contact status can be used for monitoring purposes.

If required, the additional DIP switch can be used to override the individual alarm and turn off the respective TMA supply voltage (1 = supply voltage and red LED alarm OFF, 0 = supply voltage and red LED alarm ON).

Specifications:

Power supply (DC input)	38–72 VDC
DC supply voltage (DC outputs to MHA1–MHA6)	6 x +12 ±0.3 V nominal current: 110 mA ±20%
Failure detection threshold	>230 mA ±10%
Alarms	
LED indicators	Red LED ON = TMA failure at indicated DC output Orange LED On = power supply failure (back-up power supply in use) Green LED ON = power supply ON
SubD 9-pin connector	Contact pins 4 + 5 closed when failure detection threshold is exceeded + MHA or power supply failure Contact pins 1–3, 6–8 grounded when failure detection threshold is exceeded + MHA failure
Electrical protection against	Reverse voltage on DC outputs Reverse polarity voltage, over-current and over-voltage on DC input (power supply)
Temperature range	-40°C – +60°C
Connectors	
Power supply	DIN 3-pin male
DC supply voltage	BNC female (6 x)
Alarms	SubD 9-pin
MTBF	>450,000 hours
Dimensions	19 inches x 1 HU (height unit) 19 x 6.7 x 1.7 inches (483 x 171 x 44 mm)
Weight	4.9 lb (2.2 kg)
Application	Indoor (IP20)



Bias Tee

Optional Accessories:

Description	
782 10388	Cable set, 2 m (6 cables) Cable type: RG 316 Connectors: BNC male / SMB female Voltage drop at 110 mA nominal current: < 0.2 V
782 10388	Cable set, 5 m (6 cables) Cable type: RG 316 Connectors: BNC male / SMB female Voltage drop at 110 mA nominal current: < 0.2 V
793 304	Bias tee
782 10429	Bias tee
782 10615	Bias tee
782 10616	Bias tee
782 10617	Bias tee
782 10618	Bias tee

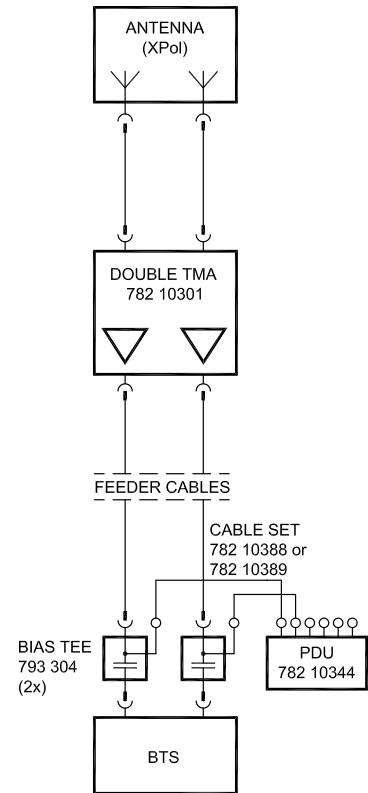
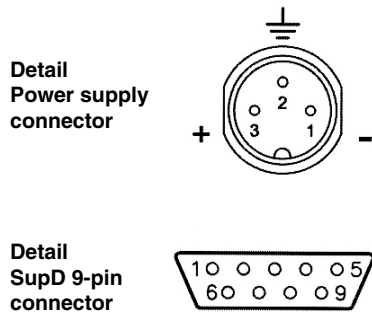
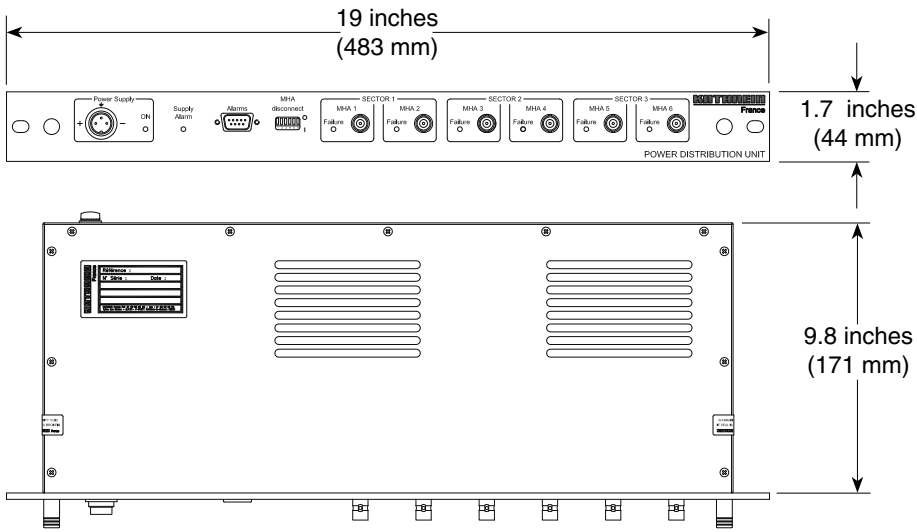
Order Information:

Model	Description
782 10344	Power distribution unit

Unit includes the Power Distribution Unit and 3 m power supply cable with DIN 3-pin female connector. (brown (+), blue (-), green-yellow (ground)).



10951-A
936.2623



Application example
Antenna system (1 sector) with
Kathrein PDU 782 10344,
Bias Tees 793 304 and
UMTS Double TMA 782 10301

SubD 9-pin connector and LED alarms

		SubD 9-pin connector pin #									Red alarm LED #						Orange alarm LED	Green alarm LED
		1	2	3	4	5	6	7	8	9	1	2	3	4	5	6		
MHA1	failure	grd	-	-	contacts closed if at least 1 failure	-	-	-	grd	ON	-	-	-	-	-	-	ON	
	no failure	open	-	-		-	-	-	grd	OFF	-	-	-	-	-	-	ON	
MHA2	failure	-	grd	-		-	-	-	grd	-	ON	-	-	-	-	-	ON	
	no failure	-	open	-		-	-	-	grd	-	OFF	-	-	-	-	-	ON	
MHA3	failure	-	-	grd		-	-	-	grd	-	-	ON	-	-	-	-	ON	
	no failure	-	-	open		-	-	-	grd	-	-	OFF	-	-	-	-	ON	
MHA4	failure	-	-	-		contacts open if no failure	grd	-	-	grd	-	-	-	ON	-	-	ON	
	no failure	-	-	-			open	-	-	grd	-	-	-	OFF	-	-	ON	
MHA5	failure	-	-	-	-		grd	-	grd	-	-	-	-	ON	-	-	ON	
	no failure	-	-	-	-		open	-	grd	-	-	-	-	OFF	-	-	ON	
MHA6	failure	-	-	-	-		-	grd	grd	-	-	-	-	-	ON	-	ON	
	no failure	-	-	-	-		-	open	grd	-	-	-	-	-	OFF	-	ON	
Power supply	failure	-	-	-	-		-	-	grd	-	-	-	-	-	-	ON	ON	
	no failure	-	-	-	-		-	-	grd	-	-	-	-	-	-	OFF	ON	

- contact status not defined
grd contact grounded

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.