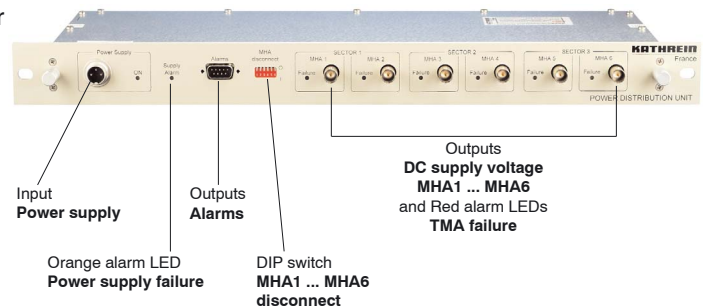


The PDU provides DC supply voltage and alarm interfacing for up to 6 TMAs / MHAs (Tower Mounted Amplifiers / Mast Head Amplifiers) with current window alarming.

- Suitable for low DC power requirements, e.g. Kathrein DTMA 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).

## Technical Data

Type No.	<b>782 10344</b>
Power supply (DC input)	38 ... 72 V DC
DC supply voltage (DC outputs to MHA1 ... MHA6)	6x +12 ±0.3 V / nominal current: <b>110 mA ±20%</b>
Failure detection threshold	> <b>230 mA ±10%</b>
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 ... +60 °C
Connectors	Power supply: DIN 3-pin male DC supply voltage: BNC female (6 x) Alarms: SubD 9-pin
Scope of delivery	PDU, 3 m power supply cable with DIN 3-pin female connector (brown (+), blue (-), green-yellow (grd))
MTBF	> 450 000 hours
Mounting	With 2 screws (M6)
Application	Indoor (IP20)
Weight	2.2 kg
Dimensions (w x h x d)	19 " drawer, 2 height units, plug-in depth 171 mm

## Accessories (order separately)

Type No.	Description	Technical data
<b>782 10388</b>	<b>Cable set 2 m (6 cables)</b>	Lenth: 2.0 m Cable type: RG 316 Connectors: BNC male / SMB female Voltage drop at 110 mA nominal current: < 0.2 V
<b>782 10389</b>	<b>Cable set 5 m (6 cables)</b>	Lenth: 5.0 m Cable type: RG 316 Connectors: BNC male / SMB female Voltage drop at 110 mA nominal current: < 0.2 V
<b>793 304</b>	<b>Bias Tee</b>	Please see separate data sheet

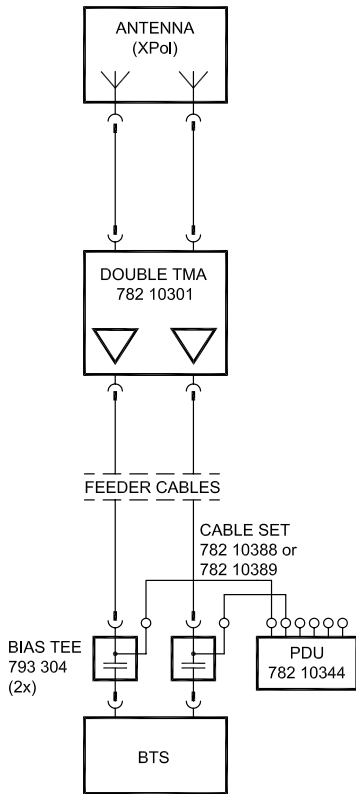


**Cable Set  
782 10388**

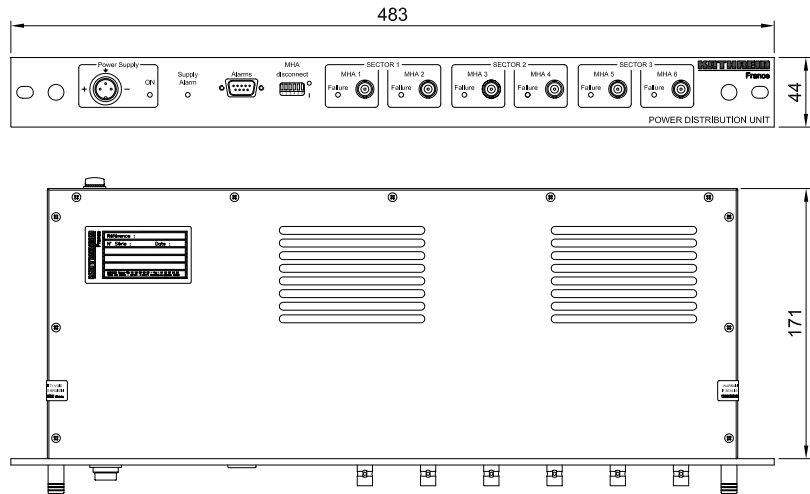


**Bias Tee 793 304**

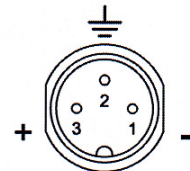
936.2623 Subject to alteration.



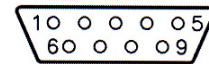
**Application example**  
Antenna system (1 sector) with  
Kathrein PDU 782 10344,  
Bias Tees 793 304 and  
UMTS Double TMA 782 10301



**Detail**  
Power supply connector



**Detail**  
SupD 9-pin connector



### 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				
<b>MHA1</b>	failure	grd	-	-	contacts closed if at least 1 failure	-	-	-	grd	ON	-	-	-	-	-	-	-	ON		
	no failure	open	-	-		-	-	-	grd	OFF	-	-	-	-	-	-	-	-	ON	
<b>MHA2</b>	failure	-	grd	-		-	-	-	grd	-	ON	-	-	-	-	-	-	-	ON	
	no failure	-	open	-		-	-	-	grd	-	OFF	-	-	-	-	-	-	-	ON	
<b>MHA3</b>	failure	-	-	grd		-	-	-	grd	-	-	ON	-	-	-	-	-	-	ON	
	no failure	-	-	open		-	-	-	grd	-	-	OFF	-	-	-	-	-	-	ON	
<b>MHA4</b>	failure	-	-	-		contacts open if no failure	grd	-	-	grd	-	-	-	ON	-	-	-	-	ON	
	no failure	-	-	-			open	-	-	grd	-	-	-	OFF	-	-	-	-	-	ON
<b>MHA5</b>	failure	-	-	-			-	grd	-	grd	-	-	-	-	ON	-	-	-	-	ON
	no failure	-	-	-			-	open	-	grd	-	-	-	OFF	-	-	-	-	-	ON
<b>MHA6</b>	failure	-	-	-			-	-	grd	grd	-	-	-	-	-	ON	-	-	-	ON
	no failure	-	-	-			-	-	open	grd	-	-	-	-	-	OFF	-	-	-	ON
<b>Power supply</b>	failure	-	-	-	-		-	-	grd	-	-	-	-	-	-	-	-	ON	ON	
	no failure	-	-	-	-		-	-	grd	-	-	-	-	-	-	-	-	OFF	ON	

- contact status not defined  
grd contact grounded

936.2623 Subject to alteration.