

## TMF100 / TMF500: MEM & Operators

### Logical operators:

	OR	=	
&	AND	+	
!	NOT	-	
>		*	
<		/	
#	DIVERSO	^	POTENZA

### Functions:

SIN	radians	LOG	Log <sub>10</sub>
COS	radians	LN	Log <sub>e</sub>
TAN	radians	ABS	Absolute
INT	integer	SGN	Returns -1 when negative, 1 when positive
SQR	√(x)	ESP	e <sup>x</sup>

### MEM List:

#### Referred to a measurement (positional):

Mx02	instantaneous
Mx12	average
Mx13	minimum
Mx14	minute of minimum
Mx15	maximum
Mx16	minute of maximum
Mx48	totalization, integral (commonly used for rainfall)
Mx82	standard deviation
Mx83	standard deviation (sqrt)

#### Global:

M43	latitude
M44	longitude
M45	hour
M46	minutes
M47	seconds
M48	battery voltage
M49	external power supply voltage (photovoltaic panel or power supply)

#### Example of derived measurement:

Evapotranspiration (ETO): \*E/M<T>12/M<RH>12/M<AS>12/M<RN>12

Dew point: ((M<RH>02/100)^(0.125))\*(112+0.9\*M<T>02)+M<T>02/10-112

where:

- <T> = var. reference of Air Temperature
- <RH> = var. reference of Relative Humidity
- <AS> = var. reference of Air Speed
- <RN> = var. reference of Net Solar Radiation