



## Pendulum Success Story 7



### ***The story of the E1 output, the built in frequency reference and the automatic calibration***

#### **Optional E1 output**

One of our customers needed to perform a measurement in his SDH-network with his Omniber from Agilent. This measurement required a frequency reference on PRC level, but where could he find such a frequency reference? He was to have a look at the new WM-10 from Pendulum, which had the optional E1 clock output. They connected the E1 output to the Omniber tester and successfully performed the measurement!

#### **Rubidium Frequency Reference**

If you stand at a network node and have two clocks that are running with different frequencies, you need to know which one is correct. To find out which one is drifting you have to compare them to a standard. The Wandermeter has a built in Rubidium reference, which you can compare the clocks to. In other words, with the Wandermeter you can perform absolute measurements, as well as relative measurements.

#### **Automatic calibration**

To calibrate an instrument costs money. Besides the cost, you don't have access to the instrument while it's being away for calibration. The Wandermeter makes it easy for you to do the calibration yourself. Connect the instrument to a Cesium clock or to a GPS controlled Rubidium frequency reference and choose calibration function in the menu. The unit will now take care of the calibration itself and you can do something else during the calibration time. Or better still, if you set up the instrument for calibration before you go home and leave it over night it will be ready to use, and perfectly adjusted, when you come back in the morning!

*These were some of the benefits that the E1 output, the built in frequency reference and the automatic calibration has given our customers. What advantages could it bring to you?*

#### **Pendulum Instruments AB**