

## Training 29 – Zero point adjustment

### 培训29-零点调节

#### Introduction介绍

Zero point adjustment is a great feature if the customer wants to measure really slow flow speeds, for example if he is going to search for small leakages inside parts of a compressed air system.

如果客户想要测量非常慢的流速，例如，如果他要是在压缩空气系统的内部寻找小的泄漏，零点调整是一个很好的特性。

Only our top of the range flow meters FC100-CA and FC01-CA enable the customer to perform a zero point adjustment.

只有我们的顶部的距离流量计FC100 - CA和FC01 - CA才能使客户执行零点调整。

#### Measuring slow flow speeds without zero point adjustment 测量缓慢的流速，没有零点调整

Flow meters which do not enable the customer to perform a zero point adjustment usually set every measured value which is smaller than a certain minimum to zero.

不使客户执行零点调整的流量计通常将小于某一最小值的测量值设置为零。

For example, if the minimum is 0,7 m/s and the measured value is 0,8 m/s the flow meter will output 0,8 m/s. But if the measured value is for example 0,6 m/s the flow meter will output 0 m/s.

例如，如果最小值是0,7 m/s，测量值为0,8 m/s，流量计将输出0,8 m/s。但如果测量值为，例如0,6 m/s，流量计将输出0,m/s。

This means that you cannot measure really slow flow speeds without a zero point adjustment.

这意味着你不能在没有零点调整的情况下测量真正缓慢的流速。

#### Measuring slow flow speeds with zero point adjustment 用零点调整测量低速流速度

Our top of the range flow meters FC01-CA and FC100-CA can measure as low as 0 m/s after the customer performed a zero point adjustment.

我们的最大范围流量计FC01 - CA和FC100 - CA在客户执行零点调整后，可以测量到0 m/s。

This means you can measure flow speeds which you even cannot feel at your skin.

这意味着你可以测量你的皮肤无法感觉到的流速。

#### Why does the customer have to perform the zero point adjustment?

##### 为什么客户必须执行零点调整?

The accuracy of measured values which are smaller than a certain minimum (for example 0,7 m/s) depends on the pressure inside the pipe and the installation position. FlowVision does not know both things. Because of that the customer has to do the zero point adjustment by himself after the installation of the flow meter.

测量值的精度小于一定的最小值(例如，0,7 m/s)取决于管道内部的压力和安装位置。这两件事都不了解。因为客户在安装流量计后必须自己做零点调整。

#### How is the zero point adjustment done?

##### 如何完成零点调整?

The customer needs to close the pipe (by a valve) to ensure that there is no flow. Above that the pressure inside the pipe must be at the operational value. After waiting a few minutes the customer can adjust the zero point.

客户需要关闭管道(通过阀门)，以确保没有流。在此之上，管道内的压力必须达到操作值。等几分钟后，客户可以调整零点。

