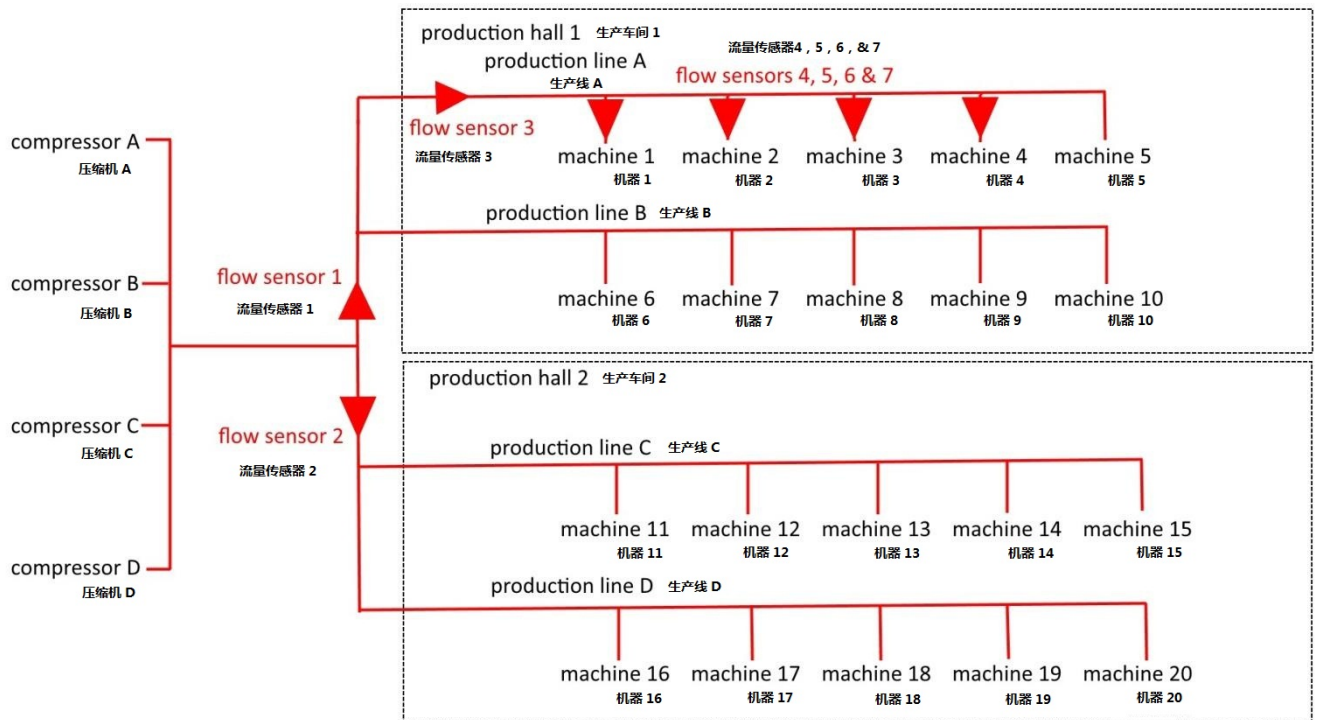


Training 21 – Applications – Compressed air consumption measurement 2 培训21-应用-压缩空气消耗量测量 2

Introduction 介绍

In training 20 I explained why it is very interesting for a fictional customer to install those flow meters in his compressed air system:

在培训20中，我解释了为什么一个虚构的客户在他的压缩空气系统中安装这些流量计是非常有趣的。



In this training we will take a closer look at which FlowVision sensors are suitable for the measuring points.

在这次训练中，我们将更仔细地研究一种适合于测量点的视觉传感器。

Which sensors are suitable to measure the compressed air consumption of hall 1 and hall 2?

哪一个传感器适合测量车间1和车间2的压缩空气消耗量?

You usually have quite big pipes near the compressor and if you go further away from the compressor the pipes get smaller and smaller. Because of this the pipes in which flow sensors 1 and 2 are installed are usually quite big. In this fictional company those pipes have a diameter of 150 mm.

你通常在压缩机附近有很大的管道，如果你远离压缩机，管道会变得越来越小。因此，安装流量传感器1和2的管道通常都很大。在这个虚构的公司里，这些管道的直径为150mm。





There are two FlowVision sensors which can be used at those measuring points.
在测点上有两个可用于测量的流量传感器:

	FlowVision type 类型	Main features 主要特点
<p>“top-of-the-range” “高端的”</p>	 <p>FC100-CA... with CSF-11A... Suitable for pipe diameter 50...1000 mm 适用于管径 50...1000mm</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) 输出 (流量) - 4-20 mA output (temperature) 输出 (温度) - Pulse output 脉冲输出 - 2 Switching outputs 2开关输出 - Serial port (PC software) 串行端口(PC软件) - LCD Display 液晶显示器 - Heavy duty 重载 - Very versatile 非常多样化
<p>“mid-range” “中档的”</p>	 <p>FC50-CA... push-in type 嵌入式 Suitable for pipe diameter 50...1000 mm 适用于管径 50...1000mm</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) 输出 (流量) - Switching output 开关输出 - 10 x LED bar 巴 - Very compact 很精干 - Heavy duty 重载
<p>“low cost” “低档的”</p>	<p>---</p>	<p>---</p>

Which sensors are suitable to measure the compressed air consumption of production line A?

In this fictional company the main pipe of production line A has a diameter of 65 mm.

There are four FlowVision sensors which can be used at this measuring point:

	FlowVision type	Main features
„top-of-the-range“	 <p>FC100-CA... with CSF-11A... Suitable for pipe diameter 50...1000 mm</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) - 4-20 mA output (temperature) - Pulse output - 2 Switching outputs - Serial port (PC software) - LCD Display - Heavy duty - Very versatile
	 <p>FC100-CA... with CST-11A... Suitable for pipe diameter 20...80 mm</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) - 4-20 mA output (temperature) - Pulse output - 2 Switching outputs - Serial port (PC software) - LCD Display - Heavy duty - Very versatile
„mid-range“	 <p>FC50-CA... push-in type Suitable for pipe diameter 50...1000 mm</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) - Switching output - 10 x LED bar - Very compact - Heavy duty
	 <p>FC50-CA... screw-in type Suitable for pipe diameter 20...80 mm</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) - Switching output - 10 x LED bar - Very compact - Heavy duty
„low cost“	---	---

Which sensors are suitable to measure the compressed air consumption of every machine?





哪个传感器适合测量每台机器的压缩空气消耗量?



In this fictional company the main pipes to the machines have a diameter of 25 mm.

在这个虚构的公司里，机器的主要管道直径为25mm。

There are six FlowVision sensors which can be used at this measuring point:

在这个测点上有6个流量传感器:

	FlowVision type 类型	Main features 主要特点
<p>“top-of-the-range” “高端的”</p>	 <p>FC100-CA... with CSP-11A... Suitable for pipe diameter 16...50 mm (installation in TP or BV adapter) 适用于管道直径16...50mm(TP或BV适配器安装)</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) 输出 (流量) - 4-20 mA output (temperature) 输出 (温度) - Pulse output 脉冲输出 - 2 Switching outputs 开关输出 - Serial port (PC software) 串行端口(PC软件) - LCD Display 液晶显示器 - Heavy duty 重载 - Very versatile 非常多样化
	 <p>FC100-CA... with CST-11A... Suitable for pipe diameter 20...80 mm 适用于管道直径20...80毫米</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) 输出 (流量) - 4-20 mA output (temperature) 输出 (温度) - Pulse output 脉冲输出 - 2 Switching outputs 开关输出 - Serial port (PC software) 串行端口(PC软件) - LCD Display 液晶显示器 - Heavy duty 重载 - Very versatile 非常多样化
<p>“mid-range” “中档的”</p>	 <p>FC50-CA... plug-in type 插入式 Suitable for pipe diameter 16...50 mm (installation in TP or BV adapter) 适用于管道直径16...50mm(TP或BV适配器安装)</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) 输出 (流量) - Pulse output or switching output 输出 (温度) - 10 x LED bar 巴 - Very compact 很精干 - Heavy duty 重载
	 <p>FC50-CA... screw-in type 旋入式 Suitable for pipe diameter 20...80 mm 适用于管道直径20...80mm</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) 输出 (流量) - Switching output 开关输出 - 10 x LED bar 巴 - Very compact 很精干 - Heavy duty 重载

<p>"low cost" 低档的</p>	 <p>FC03 Suitable for pipe diameter 16...50 mm (installation in TP or BV adapter) 适用于管道直径16...50mm(TP或BV适配器安装)</p>	<ul style="list-style-type: none"> - 4-20 mA output (flow) 流量输出 - No configuration necessary 没有必要配置
	 <p>FC04 Suitable for pipe diameter 16...50 mm (installation in TP or BV adapter) 适用于管道直径16...5mm(TP或BV适配器安装)</p>	<ul style="list-style-type: none"> - Pulse output 脉冲输出 - No configuration necessary 没有必要配置