7.8. ANALOGUE OUTPUT MODULE

There is one Analogue Output Module (AO2) which provides two channels offering either voltage or current output drive. Each channel is independently software settable. Both channels work the same way, calculating the output drive value **'MeasV'** from the block parameters and the demanded **'Val'** value.

For module specification see Appendix A.

7.8.1. Analogue Output Isolation Barriers

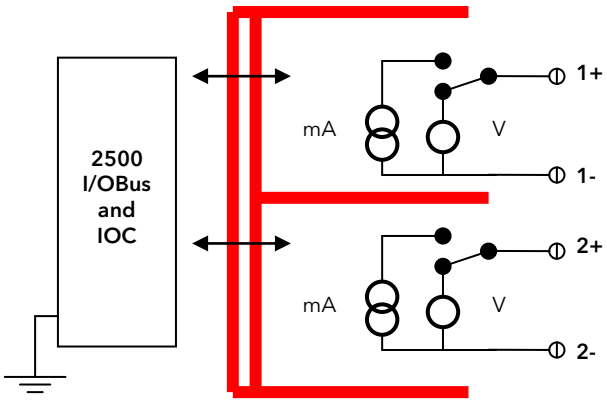
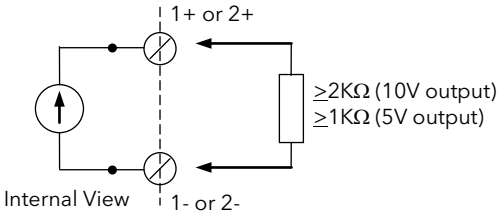


Figure 7-24: AO2 Channel Isolation barriers

7.8.2. Analogue Output Equivalent Circuits



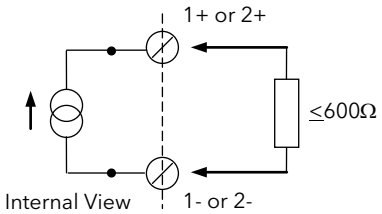


Figure 7-25: Voltage Output **Current Output**

7.8.3. AO Terminal Connections

The AO2 Terminal Unit provides 4 screw terminals for channel wiring:

1+	1-	2+	2-

No external power source is required, each channel supporting an isolated supply derived from the base 24V.

7.8.4. Analogue Output Channel Parameters

These parameters are found in **IO → Module0x → MOD0x**

AO2 Channel Type and Enumeration

Name	Description	Range	Status
▪ **TYPE**	**Channel Type**		
V (O) (30)	Volt output		
mA (O) (31)	Milliamp output		

AO2 Channel I/O Parameters

These parameters are found in **IO → Module0x → M0x_Cy**

Name	Description	Range	Status
▪ **Val**	**Process Value** (in Engineering Units) - controls the output drive.		
▪ **ValSrc**	**Process Value source** - Modbus address of the controlling parameter. Source address values of -1 indicate the parameter is not wired.		
▪ **VALH**	**Engineering Value High**. For TPO only, the maximum control value allowed.		
▪ **VALL**	**Engineering Value Low**. For TPO only, the minimum control value allowed.		
▪ **IOH**	**Electrical High.** For TPO types only, the maximum output proportion.		
▪ **IOL**	**Electrical Low.** For TPO types only, the minimum output proportion.		
▪ **MeasV**	**Electrical Value** - the electrical signal value measured at the terminals.		
▪ **FltAct**	**OP Standby Action** - behavior when in standby mode		
DrvDn (2)	Electrical output is forced to low limit.		
DrvUp (3)	Electrical output is forced to high limit.		
Cont (4)	Signal is maintained - held if the PV is not wired. If wired to a local PID loop control will be maintained.		