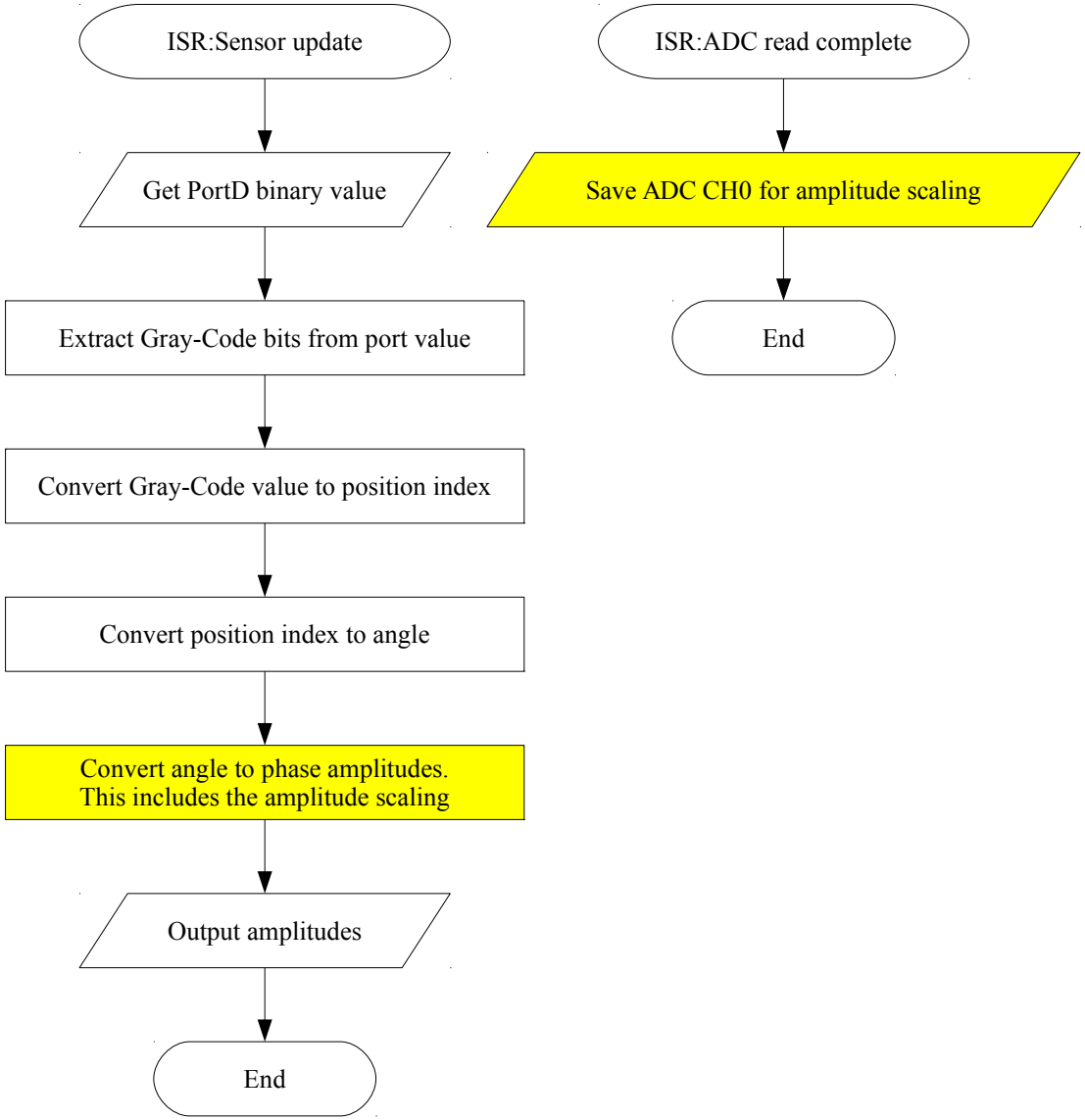
ISR:Sensor update
Get PortD binary value
Extract Gray-Code bits from port value
Convert Gray-Code value to position index
Convert position index to angle
Convert angle to phase amplitudes.
This includes the amplitude scaling
Output amplitudes
End
ISR:ADC read complete
Save ADC CH0 for amplitude scaling
End