# List of PLC variables (memory addresses) for the DCU – PLC project
## August 15th, 2013.

| Device | Element | Decimal Address | Function | Meaningful values / Range |
|---|---|---|---|---|
| FFS DCU | C10 | | FFS-DCU enable bit | 1 = Enabled |
| | C11 | | Deploy FFS Control bit | 1 = Deploy, 0 = Not |
| | Y110 | | Deploy FFS output | 1 = Deploy output ON, 0 = Not |
| Phd Hall Sensor | X0 | | FFS Deployed input | 1 = Deployed, 0 = Not deployed |
| | C12 | | Retract FFS Control bit | 1 = Retract |
| | Y111 | | Retract FFS output | 1 = Retract output ON, 0 = Not |
| Phd Hall Sensor | X1 | | FFS Retracted input | 1 = Retracted, 0 = Not Retracted |
| | C14 | | Release FFS brake | 1 = Release, 0 = Apply brake |
| | Y0 | | Release FFS Brake output | 1 = Release output ON |
| FFS pressure switch | X4 | | FFS Brake Released input | 1 = Released, 0 = Not Released |
| | | | | |
| MCal DCU | C20 | | MCal-DCU enable bit | 1 = Enabled |
| | C21 | | Deploy MCal Control bit | 1 = Deploy, 0 = Not |
| | Y114 | | Deploy MCal output | 1 = Deploy output ON, 0 = Not |
| Phd Hall Sensor | X2 | | Mcal Deployed input | 1 = Deployed, 0 = Not deployed |
| | C22 | | Retract MCal Control bit | 1 = Retract |
| | Y115 | | Retract MCal output | 1 = Retract output ON, 0 = Not |
| Phd Hall Sensor | X3 | | MCal Retracted input | 1 = Retracted, 0 = Not Retracted |
| | C24 | | Release MCal brake | 1 = Release, 0 = Apply brake |
| | Y1 | | Release MCal Brake output | 1 = Release output ON |
| MCal pressure switch | X5 | | MCal Brake Released input | 1 = Released, 0 = Not Released |
| | | | | |
| Selector | Y100 | | Select FFS / MCal SPDT output | 0 = FFS, 1 = MCal |
| | | | | |
| Air pressure | V2200 | | Supply/Inlet Pressure | 0 ~ 1500 tenths of PSI |
| | | | | |
| Refusal Mode status | V4000 | | OR of conditions | 0 = everything OK<br>1 = MCal not retracted while FFS in use<br>2 = FFS not retracted while MCal in use |
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| Lamps (Only while FFS is enabled) | C40 | | QH (Quartz High) lamps | 1 = ON / 0 = OFF |
| | Y4 | | QH lamps Output | 1 = ON / 0 = OFF |
| | C41 | | QH (Quartz Low) lamps | 1 = ON / 0 = OFF |
| | Y5 | | QH lamps Output | 1 = ON / 0 = OFF |
| | C42 | Not yet | QAdj (Quartz adjustable) | 1 = ON / 0 = OFF |
| | Y6 | | QAdj lamps Output | 1 = ON / 0 = OFF |
| | C30 | | HC1 (Hollow Cathode) lamp | 1 = ON / 0 = OFF |
| | Y10 | | HC1 lamps Output | 1 = ON / 0 = OFF |
| | C31 | | HC2 (Hollow Cathode) lamp | 1 = ON / 0 = OFF |
| | Y11 | | HC2 lamps Output | 1 = ON / 0 = OFF |
| | C32 | | HC3 (Hollow Cathode) lamp | 1 = ON / 0 = OFF |
| | Y12 | | HC3 lamps Output | 1 = ON / 0 = OFF |
| | C33 | | HC4 (Hollow Cathode) lamp | 1 = ON / 0 = OFF |
| | Y13 | | HC4 lamps Output | 1 = ON / 0 = OFF |
| | C34 | | HC5 (Hollow Cathode) lamp | 1 = ON / 0 = OFF |
| | Y14 | | HC5 lamps Output | 1 = ON / 0 = OFF |
| | C35 | | HC6 (Hollow Cathode) lamp | 1 = ON / 0 = OFF |
| | Y15 | | HC6 lamps Output | 1 = ON / 0 = OFF |
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| Dimmer | n/a | | Analog output | 0 ~ 5Vdc |
| Session cookie | V400 | | For GUI's internal use | Random values |