Main() UNPA-UARG PI 29A/412+PIO+AM_H SOFT CSI/CR1000DIAGRAMA Main() Declare Public Variables: R.OLIVA 11-10-2019 BattV, PStat_1-4, SE_Vbat SE_laer, SE_lfv, SE_RPM P1 FreqThies SE_VbatHalf Public MSData(8), MBRegs(10) Public MBCoils(2) as Boolean UNI Test Program29A412_Amilcar Herrera_PIO Datos: 1 equipo eólico Eolux 1kW 24 **Define Constants** 4 baterías 6V 390Ah Define Units for Public Variables 1 array paneles 200Wp 1 bombeo y control invernadero via Arduino Define UNPA Table (auto Allocate) ->DataInterval 1 min, 10 lapses ->Save to CF NL115 every N=1 minute ->Sample PanelTemp ->Min,Avg BattVoltage (12V) ->Sample C1-C4 (PStat1-4) ->SE VBat Avg, Max, min, Stdev ->SE IAer Avg, Max, min, Stdev ->SE_Ifv Avg, Max, min, Stdev ->SERPM Avg, Max, min, Stdev ->P1 Thies Avg, Max, min, Stdev WebPage Begin HTML_instructions (or Sub) WebPage_End BeginProg ModbusSlave(502, 115200, 0, 1, MBRegs(), MBCCois(),2) Use Modbus TCP Port 502 'Open COM232 for communications with Arduino 'SerialOpen (ComPort, BaudRate, Format, TXDelay, BufferSize) 'Format=2: implies E,8,1; 19200Baud, 0=TXdelay, 500=RingBuffer 'No CommsMode SerialOpen(ComRS232,19200,2,0,500) Scan(1,sec,1,0) PanelTemp(PanelTempC) Battery(BattV) PortGet(PStat_1,1) to PortGet(PStat_4,4) VoltSe(SE_VBat, 0-5V, 0-38.4Vdc) VoltSe(SE IAer, 0-5V, 0-50A) 'ACS758U VoltSe(SE_Ifv,0-5V, 0-30A) 'ACS713 VoltSe(SE IBat 0-5V, -100/+100A) 'ACS755 VoltSe(SERPM,0-5V, K1) PulseCount(P1_Thies,---- ver) 'Arduino Poll Modbus registers ' ModbusMaster (ResultCode, ComPort, BaudRate, ModbusAddr, Function, Variable, ' Start, Length, Tries, TimeOut, [ModbusOption]) 'Baud=19200, MBAddrr=1, Function=3 ReadHR, MSData() is the variable, 'StartAddr for Regs = 100 (Float) -'Read 3 Floats, make 3 tries, wait 100*0.01s= 1 sec, '[modbusoption] = 2 Float ABCD (try, if not CDAB is 0) ModbusMaster (CommsResult(1), ComRS232, 19200, 1, 3, MSData(), 100, 3, 3, 100, 2) CallTable (UNPA_Table) loop: