**Переменные для обмена по сети Ethernet между щитами АСУ.**

**Шкаф АСУ-1**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Наименование в CodeSys** | | | **Тип в CodeSys** | **Регистр** | **примечания** |
| **192.168.100.001 – адрес щита АСУ-1**  **192.168.100.002 – адрес щита АСУ-2 осмос 1**  **192.168.100.003 – адрес щита АСУ-3 осмос 2**  **192.168.100.004 – адрес выносной панели осмос-1**  **192.168.100.005 – адрес выносной панели осмос-2** | | | | | | |
| Обмен между щитами ля работы | | | | | | |
|  | ASU\_BMTflow\_to\_ASU\_2 | | | REAL | 0 | ASU\_FlowFromBMT |
|  | ASU\_FlowFIT0102\_to\_ASU\_2 | | | REAL | 2 | ASU\_FlowFIT0102 |
|  | ASU\_Levels\_to\_ASU\_2 | | | WORD | 4 | 0 = высокий уровень V06.01  ASU\_Levels\_input |
|  | ASU\_Levels\_from\_ASU\_2 | | | WORD | 5 | 0 = низкий уровень V02.07  ASU\_Levels\_output |
|  |  | | |  |  |  |
|  | ASU\_alarms\_from\_ASU2 | | | DWORD | 232 | Аварии в панель |
| Обмен АСУ-2 / выносная панель оператора осмос 1 | | | | | | |
| ASU\_openPage\_opan1 | | PSW1000 | Какой экран открыт  0 – главный  1 – настройка V0207  2 – настройка Р0201  3 – настройка задержек времени  4 – настройка датчиков  5 – настройка осмосов общая (режимы запуска)  6 – настройка осмос 1  7 – настройка осмос 2  8 – настройка уставок осмоса | | | |
| ASU\_activators\_opan1 | | PSW1001 | Активатор (кнопки «активировать новые задания»:  0 – стр.2 настройка емкости V0207  1 – стр.3 настройка Р0201  2 – стр.4 настройка задержек времени  3 – стр.5 настройка датчиков  4 – стр.7 настройка Р020501  5 – стр.8 настройка Р020502  6 – стр.10 настройка уставок осмоса  7 – стр.9 Сброс аварий | | | |
| ASU\_alarms\_from\_ASU2\_to\_Panel1 | | PSW336 (+337) | Аварии в панель | | | |
| Главный экран | | | | | | |
|  | FIT0102realValue | | | real | Из АСУ-1 | PSW286 |
|  |  | | |  |  |  |
|  | ASU\_FIT020201\_from\_ASU\_2 / ASU\_FIT020201\_to\_OPAN1 | | | real | 6 | PSW294  ASU\_FIT020201\_OPAN1 |
|  | ASU\_FIT020202\_from\_ASU\_2 / ASU\_FIT020202\_to\_OPAN1 | | | real | 8 | PSW302  ASU\_FIT020202\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_PT020101\_from\_ASU\_2 / ASU\_PT020101\_to\_OPAN1 | | | real | 10 | PSW288  ASU\_PT020101\_OPAN1 |
|  | ASU\_PT020201\_from\_ASU\_2 / ASU\_PT020201\_to\_OPAN1 | | | real | 12 | PSW290  ASU\_PT020201\_OPAN1 |
|  | ASU\_PT020301\_from\_ASU\_2 / ASU\_PT020301\_to\_OPAN1 | | | real | 14 | PSW292  ASU\_PT020301\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_PT020102\_from\_ASU\_2 / ASU\_PT020102\_to\_OPAN1 | | | real | 16 | PSW296  ASU\_PT020102\_OPAN1 |
|  | ASU\_PT020202\_from\_ASU\_2 / ASU\_PT020202\_to\_OPAN1 | | | real | 18 | PSW298  ASU\_PT020202\_OPAN1 |
|  | ASU\_PT020302\_from\_ASU\_2 / ASU\_PT020302\_to\_OPAN1 | | | real | 20 | PSW300  ASU\_PT020302\_OPAN1 |
|  |  | | |  |  |  |
|  | таблица | | |  |  |  |
|  | ASU\_PT020401\_from\_ASU\_2 / ASU\_PT020401\_to\_OPAN1 | | | real | 22 | PSW304  ASU\_PT020401\_OPAN1 |
|  | ASU\_FIT020101\_from\_ASU\_2 / ASU\_FIT020101\_to\_OPAN1 | | | real | 24 | PSW306  ASU\_FIT020101\_OPAN1 |
|  | ASU\_QIT020101\_from\_ASU\_2 / ASU\_QIT020101\_to\_OPAN1 | | | real | 26 | PSW308  ASU\_QIT020101\_OPAN1 |
|  | таблица | | |  |  |  |
|  | ASU\_PT020402\_from\_ASU\_2 / ASU\_PT020402\_to\_OPAN1 | | | real | 28 | PSW310  ASU\_PT020402\_OPAN1 |
|  | ASU\_FIT020102\_from\_ASU\_2 / ASU\_FIT020102\_to\_OPAN1 | | | real | 30 | PSW312  ASU\_FIT020102\_OPAN1 |
|  | ASU\_QIT020102\_from\_ASU\_2 / ASU\_QIT020102\_to\_OPAN1 | | | real | 32 | PSW314  ASU\_QIT020102\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_V0207height\_from\_ASU\_2 / ASU\_V0207height\_to\_OPAN1 | | | real | 34 | PSW420  Высота по показаниям датчика  ASU\_V0207height\_OPAN1 |
|  | ASU\_V0207minHeight\_from\_ASU\_2 / ASU\_V0207minHeight\_to\_OPAN1 | | | real | 36 | PSW416  Настройка отображения высоты  ASU\_V0207minHeight\_OPAN1 |
|  | ASU\_V0207maxHeight\_from\_ASU\_2 / ASU\_V0207maxHeight\_to\_OPAN1 | | | real | 38 | PSW418  Настройка отображения высоты  ASU\_V0207maxHeight\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_mainPageStatusWord\_from\_ASU\_2 / ASU\_mainPageStatusWord\_to\_OPAN1 | | | word | 40 | PSW331  0 = P02.01/01 |
|  |  | | |  |  | 1 = P02.01/02 |
|  |  | | |  |  | 2 = P02.03/01 |
|  |  | | |  |  | 3 = P02.03/02 |
|  |  | | |  |  | 4 = P02.05/01 |
|  |  | | |  |  | 5 = P02.05/02 |
|  |  | | |  |  | 6 = клапан 5 |
|  |  | | |  |  | 7 = клапан 6 |
|  |  | | |  |  | 8 = клапан 7 |
|  |  | | |  |  | 9 = клапан 8 |
|  |  | | |  |  | 10 = клапан 9 |
|  |  | | |  |  | 11 = клапан 10 |
|  |  | | |  |  | 12 = клапан 11 |
|  |  | | |  |  | 13 = high level V02.07 |
|  |  | | |  |  | 14 = high level V06.01 |
|  |  | | |  |  | 15 = резерв |
|  |  | | |  |  | ASU\_mainPageStatusWord\_OPAN1 |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
|  | to = output  from = input | | |  |  |  |
| Экран настройки емкости V0207 | | | | | | |
| Индикация | | | | | | |
|  | ASU\_page2\_V0207height\_from\_ASU\_2  ASU\_page2\_V0207height\_to\_OPAN1 | | | real | 34 | PSW420  Высота по показаниям датчика |
|  | ASU\_page2\_V0207minHeight\_from\_ASU\_2  ASU\_page2\_V0207minHeight\_to\_OPAN1 | | | real | 36 | PSW416  Настройка отображения высоты |
|  | ASU\_page2\_V0207maxHeight\_from\_ASU\_2  ASU\_page2\_V0207maxHeight\_to\_OPAN1 | | | real | 38 | PSW418  Настройка отображения высоты |
| задания | | | | | | |
|  | ASU\_page2\_V0207maxHeight\_from\_OPAN1  ASU\_page2\_V0207maxHeight\_to\_ASU\_2 | | | real | 42 | PFW344  Максимально допустимая высота в емкости  ASU\_V0207setMaxHeight\_OPAN1 |
|  | ASU\_page2\_V0207minHeight\_from\_OPAN1  ASU\_page2\_V0207minHeight\_to\_ASU\_2 | | | real | 44 | PFW346  Минимально допустимая высота в емкости  ASU\_V0207setMinHeight\_OPAN1 |
|  |  | | |  |  |  |
| Экран настройки Р0201 | | | | | | |
| индикация | | | | | | |
|  | ASU\_page2\_counterP020101\_from\_ASU\_2  ASU\_page2\_counterP020101\_to\_OPAN1 | | | dword | 46 | PSW282  ASU\_counterP020101\_OPAN1 |
|  | ASU\_page2\_counterP020102\_from\_ASU\_2  ASU\_page2\_counterP020102\_to\_OPAN1 | | | dword | 48 | PSW284  ASU\_counterP020102\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page2\_currentValue\_setMaxPumpDosingValueP0302\_from\_ASU\_2  ASU\_page2\_currentValue\_setMaxPumpDosingValueP0302\_to\_OPAN1 | | | real | 50 | PSW374  ASU\_ASU\_currentValue\_setMaxPumpDosingValueP0302\_OPAN1 |
|  | ASU\_page2\_currentValue\_setKoeffProportionalityP0302\_from\_ASU\_2  ASU\_page2\_currentValue\_setKoeffProportionalityP0302\_to\_OPAN1 | | | real | 52 | PSW376  ASU\_currentValue\_setKoeffProportionalityP0302\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page2\_statWordP0201\_from\_ASU\_2  ASU\_page2\_statWordP0201\_to\_OPAN1 | | | word | 58 | PSW271  0 – режим запуска «насос 1 главный» |
|  |  | | |  |  | 1 – режим запуска «насос 2 главный» |
|  |  | | |  |  | 2 – режим запуска по количеству включений |
|  |  | | |  |  | 3 – режим запуска по наработке |
|  |  | | |  |  | 4 – сигнал на запуск насоса Р02.01/01 |
|  |  | | |  |  | 5 – сигнал на запуск насоса Р02.01/02 |
|  |  | | |  |  | ASU\_ statWordP0201\_ OPAN1 |
|  | ASU\_page2\_daysOfWorkP030201\_from\_ASU\_2  ASU\_page2\_daysOfWorkP030201\_to\_OPAN1 | | | word | 59 | PSW272  ASU\_daysOfWorkP030201\_OPAN1 |
|  | ASU\_page2\_hoursOfWorkP030201\_from\_ASU\_2  ASU\_page2\_hoursOfWorkP030201\_to\_OPAN1 | | | word | 60 | PSW273  ASU\_hoursOfWorkP030201\_OPAN1 |
|  | ASU\_page2\_minutesOfWorkP030201\_from\_ASU\_2  ASU\_page2\_minutesOfWorkP030201\_to\_OPAN1 | | | word | 61 | PSW274  ASU\_minutesOfWorkP030201\_OPAN1 |
|  | ASU\_page2\_secondsOfWorkP030201\_from\_ASU\_2  ASU\_page2\_secondsOfWorkP030201\_to\_OPAN1 | | | word | 62 | PSW275  ASU\_secondsOfWorkP030201\_OPAN1 |
|  | ASU\_page2\_toNextStartP030201timer\_from\_ASU\_2  ASU\_page2\_toNextStartP030201timer\_to\_OPAN1 | | | word | 63 | PSW276  ASU\_toNextStartP030201timer\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page2\_daysOfWorkP030202\_from\_ASU\_2  ASU\_page2\_daysOfWorkP030202\_to\_OPAN1 | | | word | 64 | PSW277  ASU\_daysOfWorkP030202\_OPAN1 |
|  | ASU\_page2\_hoursOfWorkP030202\_from\_ASU\_2  ASU\_page2\_hoursOfWorkP030202\_to\_OPAN1 | | | word | 65 | PSW278  ASU\_hoursOfWorkP030202\_OPAN1 |
|  | ASU\_page2\_minutesOfWorkP030202\_from\_ASU\_2  ASU\_page2\_minutesOfWorkP030202\_to\_OPAN1 | | | word | 66 | PSW279  ASU\_minutesOfWorkP030202\_OPAN1 |
|  | ASU\_page2\_secondsOfWorkP030202\_from\_ASU\_2  ASU\_page2\_secondsOfWorkP030202\_to\_OPAN1 | | | word | 67 | PSW280  ASU\_secondsOfWorkP030202\_OPAN1 |
|  | ASU\_page2\_toNextStartP030202timer\_from\_ASU\_2  ASU\_page2\_toNextStartP030202timer\_to\_OPAN1 | | | word | 68 | PSW281  ASU\_toNextStartP030202timer\_OPAN1 |
| задание | | | | | | |
|  | ASU\_page2\_setMaxPumpDosingValueP0302\_from\_OPAN1  ASU\_page2\_setMaxPumpDosingValueP0302\_to\_ASU\_2 | | | REAL | 54 | PFW260  ASU\_setMaxPumpDosingValueP0302\_OPAN1 |
|  | ASU\_page2\_setKoeffProportionalityP0302\_from\_OPAN1  ASU\_page2\_setKoeffProportionalityP0302\_to\_ASU\_2 | | | REAL | 56 | PFW262  ASU\_setKoeffProportionalityP0302\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page2\_setWordP0201\_from\_OPAN1  ASU\_page2\_setWordP0201\_to\_ASU\_2 | | | word | 69 | ASU\_setWordP0201\_OPAN1  PSW1002  0 - set pump 1 main |
|  |  | | |  |  | 1- set pump 2 main |
|  |  | | |  |  | 2 – set by counter |
|  |  | | |  |  | 3 – setByWorkTime |
|  |  | | |  |  | 4 – resetPump1counter |
|  |  | | |  |  | 5 – resetPump2counter |
|  |  | | |  |  | 6 – resetWorkTimePump1 |
|  |  | | |  |  | 7 – resetWorkTimePump2 |
|  |  | | |  |  |  |
| Экран настройки задержек времени | | | | | | |
| Индикация | | | | | | |
|  | ASU\_page4\_currentValue\_CHECKING\_DELAY\_TIME\_from\_ASU\_2  ASU\_page4\_currentValue\_CHECKING\_DELAY\_TIME\_to\_OPAN1 | | | UINT | 70 | PSW378  ASU\_currentValue\_CHECKING\_DELAY\_TIME\_OPAN1 |
|  | ASU\_page4\_currentValue\_DELAY\_REPEATED\_START\_SEC\_from\_ASU\_2  ASU\_page4\_currentValue\_DELAY\_REPEATED\_START\_SEC\_to\_OPAN1 | | | UINT | 71 | PSW379  ASU\_currentValue\_DELAY\_REPEATED\_START\_SEC\_OPAN1 |
|  | ASU\_page4\_currentValue\_DELAY\_TO\_OFF\_VALVE\_from\_ASU\_2  ASU\_page4\_currentValue\_DELAY\_TO\_OFF\_VALVE\_to\_OPAN1 | | | UINT | 72 | PSW380  ASU\_currentValue\_DELAY\_TO\_OFF\_VALVE\_OPAN1 |
|  | ASU\_page4\_currentValue\_DELAY\_TO\_CHECK\_PT0301\_from\_ASU\_2  ASU\_page4\_currentValue\_DELAY\_TO\_CHECK\_PT0301\_to\_OPAN1 | | | UINT | 73 | PSW381  ASU\_currentValue\_DELAY\_TO\_CHECK\_PT0301\_OPAN1 |
|  | ASU\_page4\_currentValue\_DELAY\_TO\_SWITCH\_VALVE\_from\_ASU\_2  ASU\_page4\_currentValue\_DELAY\_TO\_SWITCH\_VALVE\_to\_OPAN1 | | | UINT | 74 | PSW382  ASU\_currentValue\_DELAY\_TO\_SWITCH\_VALVE\_OPAN1 |
|  | ASU\_page4\_currentValue\_DELAY\_TO\_CLOSE\_VALVE\_from\_ASU\_2  ASU\_page4\_currentValue\_DELAY\_TO\_CLOSE\_VALVE\_to\_OPAN1 | | | UINT | 75 | PSW383  ASU\_currentValue\_DELAY\_TO\_CLOSE\_VALVE\_OPAN1 |
|  |  | | |  |  |  |
| Задание | | | | | | |
|  | ASU\_page4\_CHECKING\_DELAY\_TIME\_from\_OPAN1  ASU\_page4\_CHECKING\_DELAY\_TIME\_to\_ASU\_2 | | | UINT | 76 | ASU\_CHECKING\_DELAY\_TIME\_OPAN1  PFW264  Время задержки контроля, например, время задержки контроля сигнала эк манометра после насоса на время разгона насоса.  5с |
|  | ASU\_page4\_DELAY\_REPEATED\_START\_SEC\_from\_OPAN1  ASU\_page4\_DELAY\_REPEATED\_START\_SEC\_to\_ASU\_2 | | | UINT | 77 | ASU\_DELAY\_REPEATED\_START\_SEC\_OPAN1  PFW265  Время задержки повторных пусков насосов, сек. Защита от частых пусков.  300с |
|  | ASU\_page4\_DELAY\_TO\_OFF\_VALVE\_from\_OPAN1  ASU\_page4\_DELAY\_TO\_OFF\_VALVE\_to\_ASU\_2 | | | UINT | 78 | ASU\_DELAY\_TO\_OFF\_VALVE\_OPAN1  PFW266  Задержка перед открытием/закрытием клапана при последовательном открытии/закрытии при пуске/останове осмоса.  3с |
|  | ASU\_page4\_DELAY\_TO\_CHECK\_PT0301\_from\_OPAN1  ASU\_page4\_DELAY\_TO\_CHECK\_PT0301\_to\_ASU\_2 | | | UINT | 79 | ASU\_DELAY\_TO\_CHECK\_PT0301\_OPAN1  PFW267  Задержка контроля датчика РТ02.01  10с |
|  | ASU\_page4\_DELAY\_TO\_SWITCH\_VALVE\_from\_OPAN1  ASU\_page4\_DELAY\_TO\_SWITCH\_VALVE\_to\_ASU\_2 | | | UINT | 80 | ASU\_DELAY\_TO\_SWITCH\_VALVE\_OPAN1  PFW268  Задержка до переключения клапанов после запуска Р0306  15с |
|  | ASU\_page4\_DELAY\_TO\_CLOSE\_VALVE\_from\_OPAN1  ASU\_page4\_DELAY\_TO\_CLOSE\_VALVE\_to\_ASU\_2 | | | UINT | 81 | ASU\_DELAY\_TO\_CLOSE\_VALVE\_OPAN1  PFW269  Задержка до начала закрытия клапанов после выключения насоса |
|  |  | | |  |  |  |
| Экран настройки датчиков | | | | | | |
| индикация | | | | | | |
|  | ASU\_page5\_currentValue\_LT0203maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_LT0203maxValue\_to\_OPAN1 | | | Real | 82 | PSW384  ASU\_currentValue\_LT0203maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_FIT020101maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_FIT020101maxValue\_to\_OPAN1 | | | Real | 84 | PSW386  ASU\_currentValue\_FIT020101maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_FIT020201maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_FIT020201maxValue\_to\_OPAN1 | | | Real | 86 | PSW388  ASU\_currentValue\_FIT020201maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_FIT020102maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_FIT020102maxValue\_to\_OPAN1 | | | Real | 88 | PSW390  ASU\_currentValue\_FIT020102maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_FIT020202maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_FIT020202maxValue\_to\_OPAN1 | | | Real | 90 | PSW392  ASU\_currentValue\_FIT020202maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_QIT020101maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_QIT020101maxValue\_to\_OPAN1 | | | Real | 92 | PSW394  ASU\_currentValue\_QIT020101maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_QIT020102maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_QIT020102maxValue\_to\_OPAN1 | | | Real | 94 | PSW396  ASU\_currentValue\_QIT020102maxValue\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page5\_currentValue\_PT020101maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_PT020101maxValue\_to\_OPAN1 | | | Real | 96 | PSW398  ASU\_currentValue\_PT020101maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_PT020201maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_PT020201maxValue\_to\_OPAN1 | | | Real | 98 | PSW400  ASU\_currentValue\_PT020201maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_PT020301maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_PT020301maxValue\_to\_OPAN1 | | | Real | 100 | PSW402  ASU\_currentValue\_PT020301maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_PT020401maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_PT020401maxValue\_to\_OPAN1 | | | Real | 102 | PSW404  ASU\_currentValue\_PT020401maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_PT020102maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_PT020102maxValue\_to\_OPAN1 | | | Real | 104 | PSW406  ASU\_currentValue\_PT020102maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_PT020202maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_PT020202maxValue\_to\_OPAN1 | | | Real | 106 | PSW408  ASU\_currentValue\_PT020202maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_PT020302maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_PT020302maxValue\_to\_OPAN1 | | | Real | 108 | PSW410  ASU\_currentValue\_PT020302maxValue\_OPAN1 |
|  | ASU\_page5\_currentValue\_PT020402maxValue\_from\_ASU\_2  ASU\_page5\_currentValue\_PT020402maxValue\_to\_OPAN1 | | | Real | 110 | PSW412  ASU\_currentValue\_PT020402maxValue\_OPAN1 |
| Задание | | | | | | |
|  | ASU\_page5\_LT0203maxValue\_from\_OPAN1  ASU\_page5\_LT0203maxValue\_to\_ASU\_2 | | | REAL | 112 | PFW274  ASU\_LT0203maxValue\_OPAN1 |
|  | ASU\_page5\_FIT020101maxValue\_from\_OPAN1  ASU\_page5\_FIT020101maxValue\_to\_ASU\_2 | | | REAL | 114 | PFW276  ASU\_FIT020101maxValue\_OPAN1 |
|  | ASU\_page5\_FIT020201maxValue\_from\_OPAN1  ASU\_page5\_FIT020201maxValue\_to\_ASU\_2 | | | REAL | 116 | PFW278  ASU\_FIT020201maxValue\_OPAN1 |
|  | ASU\_page5\_FIT020102maxValue\_from\_OPAN1  ASU\_page5\_FIT020102maxValue\_to\_ASU\_2 | | | REAL | 118 | PFW280  ASU\_FIT020102maxValue\_OPAN1 |
|  | ASU\_page5\_FIT020202maxValue\_from\_OPAN1  ASU\_page5\_FIT020202maxValue\_to\_ASU\_2 | | | REAL | 120 | PFW282  ASU\_FIT020202maxValue\_OPAN1 |
|  | ASU\_page5\_QIT020101maxValue\_from\_OPAN1  ASU\_page5\_QIT020101maxValue\_to\_ASU\_2 | | | REAL | 122 | PFW284  ASU\_QIT020101maxValue\_OPAN1 |
|  | ASU\_page5\_QIT020102maxValue\_from\_OPAN1  ASU\_page5\_QIT020102maxValue\_to\_ASU\_2 | | | REAL | 124 | PFW286  ASU\_QIT020102maxValue\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page5\_PT020101maxValue\_from\_OPAN1  ASU\_page5\_PT020101maxValue\_to\_ASU\_2 | | | REAL | 126 | PFW288  ASU\_PT020101maxValue\_OPAN1 |
|  | ASU\_page5\_PT020201maxValue\_from\_OPAN1  ASU\_page5\_PT020201maxValue\_to\_ASU\_2 | | | REAL | 128 | PFW290  ASU\_PT020201maxValue\_OPAN1 |
|  | ASU\_page5\_PT020301maxValue\_from\_OPAN1  ASU\_page5\_PT020301maxValue\_to\_ASU\_2 | | | REAL | 130 | PFW292  ASU\_PT020301maxValue\_OPAN1 |
|  | ASU\_page5\_PT020401maxValue\_from\_OPAN1  ASU\_page5\_PT020401maxValue\_to\_ASU\_2 | | | REAL | 132 | PFW294  ASU\_PT020401maxValue\_OPAN1 |
|  | ASU\_page5\_PT020102maxValue\_from\_OPAN1  ASU\_page5\_PT020102maxValue\_to\_ASU\_2 | | | REAL | 134 | PFW296  ASU\_PT020102maxValue\_OPAN1 |
|  | ASU\_page5\_PT020202maxValue\_from\_OPAN1  ASU\_page5\_PT020202maxValue\_to\_ASU\_2 | | | REAL | 136 | PFW298  ASU\_PT020202maxValue\_OPAN1 |
|  | ASU\_page5\_PT020302maxValue\_from\_OPAN1  ASU\_page5\_PT020302maxValue\_to\_ASU\_2 | | | REAL | 138 | PFW300  ASU\_PT020302maxValue\_OPAN1 |
|  | ASU\_page5\_PT020402maxValue\_from\_OPAN1  ASU\_page5\_PT020402maxValue\_to\_ASU\_2 | | | REAL | 140 | PFW302  ASU\_PT020402maxValue\_OPAN1 |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
| Общие настройки осмосов | | | | | | |
| Индикация | | | | | | |
|  | ASU\_page6\_counterPV020601\_from\_ASU\_2  ASU\_page6\_counterPV020601\_to\_OPAN1 | | | dword | 142 | PSW322  ASU\_counterPV020601\_OPAN1 |
|  | ASU\_page6\_counterPV020602\_from\_ASU\_2  ASU\_page6\_counterPV020602\_to\_OPAN1 | | | dword | 144 | PSW324  ASU\_counterPV020602\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page6\_statWordPV0206\_from\_ASU\_2  ASU\_page6\_statWordPV0206\_to\_OPAN1 | | | word | 146 | ASU\_statWordPV0206\_OPAN1  PSW316  0 – режим запуска «насос 1 главный» |
|  |  | | |  |  | 1 – режим запуска «насос 2 главный» |
|  |  | | |  |  | 2 – режим запуска по количеству включений |
|  |  | | |  |  | 3 – режим запуска по наработке |
|  |  | | |  |  | 4 – сигнал на запуск осмос1 |
|  |  | | |  |  | 5 – сигнал на запуск осмос2 |
|  |  | | |  |  | *8 – режим работы каскад (true)/не каскад (false) – экран 10* |
|  |  | | |  |  |  |
|  | ASU\_page6\_daysOfWorkPV020601\_from\_ASU\_2  ASU\_page6\_daysOfWorkPV020601\_to\_OPAN1 | | | word | 147 | PSW317  ASU\_daysOfWorkPV020601\_OPAN1 |
|  | ASU\_page6\_hoursOfWorkPV020601\_from\_ASU\_2  ASU\_page6\_hoursOfWorkPV020601\_to\_OPAN1 | | | word | 148 | PSW318  ASU\_hoursOfWorkPV020601\_OPAN1 |
|  | ASU\_page6\_minutesOfWorkPV020601\_from\_ASU\_2  ASU\_page6\_minutesOfWorkPV020601\_to\_OPAN1 | | | word | 149 | PSW319  ASU\_minutesOfWorkPV020601\_OPAN1 |
|  | ASU\_page6\_secondsOfWorkPV020601\_from\_ASU\_2  ASU\_page6\_secondsOfWorkPV020601\_to\_OPAN1 | | | word | 150 | PSW320  ASU\_secondsOfWorkPV020601\_OPAN1 |
|  | ASU\_page6\_toNextStartPV020601timer\_from\_ASU\_2  ASU\_page6\_toNextStartPV020601timer\_to\_OPAN1 | | | word | 151 | PSW321  ASU\_toNextStartPV020601timer\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page6\_daysOfWorkPV020602\_from\_ASU\_2  ASU\_page6\_daysOfWorkPV020602\_to\_OPAN1 | | | word | 152 | PSW326  ASU\_daysOfWorkPV020602\_OPAN1 |
|  | ASU\_page6\_hoursOfWorkPV020602\_from\_ASU\_2  ASU\_page6\_hoursOfWorkPV020602\_to\_OPAN1 | | | word | 153 | PSW327  ASU\_hoursOfWorkPV020602\_OPAN1 |
|  | ASU\_page6\_minutesOfWorkPV020602\_from\_ASU\_2  ASU\_page6\_minutesOfWorkPV020602\_to\_OPAN1 | | | word | 154 | PSW328  ASU\_minutesOfWorkPV020602\_OPAN1 |
|  | ASU\_page6\_secondsOfWorkPV020602\_from\_ASU\_2  ASU\_page6\_secondsOfWorkPV020602\_to\_OPAN1 | | | word | 155 | PSW329  ASU\_secondsOfWorkPV020602\_OPAN1 |
|  | ASU\_page6\_toNextStartPV020602timer\_from\_ASU\_2  ASU\_page6\_toNextStartPV020602timer\_to\_OPAN1 | | | word | 156 | PSW330  ASU\_toNextStartPV020602timer\_OPAN1 |
|  |  | | |  |  |  |
| Задание | | | | | | |
|  | ASU\_page6\_setWordPV0206\_from\_OPAN1  ASU\_page6\_setWordPV0206\_to\_ASU\_2 | | | word | 157 | ASU\_setWordPV0206\_OPAN1  PSW1003 *(было PFW304)*  0 - set osmos 1 main |
|  |  | | |  |  | 1- set osmos 2 main |
|  |  | | |  |  | 2 – set by counter |
|  |  | | |  |  | 3 – setByWorkTime |
|  |  | | |  |  | 4 – resetOsmos1counter |
|  |  | | |  |  | 5 – resetOsmos2counter |
|  |  | | |  |  | 6 – resetWorkTimeOsmos1 |
|  |  | | |  |  | 7 – resetWorkTimeOsmos2 |
|  |  | | |  |  |  |
|  |  | | |  |  | *В экране 10*  *12 - true = каскадная работа по расходу от БМТ и заданному коэффициенту* |
|  |  | | |  |  | *13 - true = работа по своей уставке расхода FIT03.01/01, не каскад* |
|  |  | | |  |  |  |
| Настройка осмос 1 (насос Р02.05/01) | | | | | | |
| Индикация | | | | | | |
|  | ASU\_page7\_FIT020201\_from\_ASU\_2  ASU\_page7\_FIT020201\_to\_OPAN1 | | | real | 6 | PSW294  ASU\_FIT020201\_OPAN1 |
|  | ASU\_page7\_PT020201\_from\_ASU\_2  ASU\_page7\_PT020201\_to\_OPAN1 | | | real | 12 | PSW290  ASU\_PT020201\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page7\_counterPV020601\_from\_ASU\_2  ASU\_page7\_counterPV020601\_to\_OPAN1 | | | dword | 142 | PSW322  ASU\_counterPV020601\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page7\_statWordPV0206\_from\_ASU\_2  ASU\_page7\_statWordPV0206\_to\_OPAN1 | | | word | 146 | ASU\_statWordPV0206\_OPAN1  PSW316  4 – сигнал на запуск осмос1 |
|  |  | | |  |  |  |
|  | ASU\_page7\_daysOfWorkPV020601\_from\_ASU\_2  ASU\_page7\_daysOfWorkPV020601\_to\_OPAN1 | | | word | 147 | PSW317  ASU\_daysOfWorkPV020601\_OPAN1 |
|  | ASU\_page7\_hoursOfWorkPV020601\_from\_ASU\_2  ASU\_page7\_hoursOfWorkPV020601\_to\_OPAN1 | | | word | 148 | PSW318  ASU\_hoursOfWorkPV020601\_OPAN1 |
|  | ASU\_page7\_minutesOfWorkPV020601\_from\_ASU\_2  ASU\_page7\_minutesOfWorkPV020601\_to\_OPAN1 | | | word | 149 | PSW319  ASU\_minutesOfWorkPV020601\_OPAN1 |
|  | ASU\_page7\_secondsOfWorkPV020601\_from\_ASU\_2  ASU\_page7\_secondsOfWorkPV020601\_to\_OPAN1 | | | word | 150 | PSW320  ASU\_secondsOfWorkPV020601\_OPAN1 |
|  | ASU\_page7\_toNextStartPV020601timer\_from\_ASU\_2  ASU\_page7\_toNextStartPV020601timer\_to\_OPAN1 | | | word | 151 | PSW321  ASU\_toNextStartPV020601timer\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page7\_active\_KP\_F\_P030601\_from\_ASU\_2  ASU\_page7\_active\_KP\_F\_P030601\_to\_OPAN1 | | | REAL | 170 | PSW350  ASU\_active\_KP\_F\_P030601\_OPAN1 |
|  | ASU\_page7\_active\_I\_F\_P030601\_from\_ASU\_2  ASU\_page7\_active\_I\_F\_P030601\_to\_OPAN1 | | | REAL | 172 | PSW352  ASU\_active\_I\_F\_P030601\_OPAN1 |
|  | ASU\_page7\_active\_D\_F\_P030601\_from\_ASU\_2  ASU\_page7\_active\_D\_F\_P030601\_to\_OPAN1 | | | REAL | 174 | PSW354  ASU\_active\_D\_F\_P030601\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page7\_active\_KP\_P\_P030601\_from\_ASU\_2  ASU\_page7\_active\_KP\_P\_P030601\_to\_OPAN1 | | | REAL | 176 | PSW356  ASU\_active\_KP\_P\_P030601\_OPAN1 |
|  | ASU\_page7\_active\_I\_P\_P030601\_from\_ASU\_2  ASU\_page7\_active\_I\_P\_P030601\_to\_OPAN1 | | | REAL | 178 | PSW358  ASU\_active\_I\_P\_P030601\_OPAN1 |
|  | ASU\_page7\_active\_D\_P\_P030601\_from\_ASU\_2  ASU\_page7\_active\_D\_P\_P030601\_to\_OPAN1 | | | REAL | 180 | PSW360  ASU\_active\_D\_P\_P030601\_OPAN1 |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
| Задание | | | | | | |
|  | ASU\_page7\_PAN\_KP\_F\_P030601\_from\_OPAN1  ASU\_page7\_PAN\_KP\_F\_P030601\_to\_ASU\_2 | | | REAL | 158 | PFW316  ASU\_PAN\_KP\_F\_P030601\_OPAN1 |
|  | ASU\_page7\_PAN\_I\_F\_P030601\_from\_OPAN1  ASU\_page7\_PAN\_I\_F\_P030601\_to\_ASU\_2 | | | REAL | 160 | PFW318  ASU\_PAN\_I\_F\_P030601\_OPAN1 |
|  | ASU\_page7\_PAN\_D\_F\_P030601\_from\_OPAN1  ASU\_page7\_PAN\_D\_F\_P030601\_to\_ASU\_2 | | | REAL | 162 | PFW320  ASU\_PAN\_D\_F\_P030601\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page7\_PAN\_KP\_P\_P030601\_from\_OPAN1  ASU\_page7\_PAN\_KP\_P\_P030601\_to\_ASU\_2 | | | REAL | 164 | PFW322  ASU\_PAN\_KP\_P\_P030601\_OPAN1 |
|  | ASU\_page7\_PAN\_I\_P\_P030601\_from\_OPAN1  ASU\_page7\_PAN\_I\_P\_P030601\_to\_ASU\_2 | | | REAL | 166 | PFW324  ASU\_PAN\_I\_P\_P030601\_OPAN1 |
|  | ASU\_page7\_PAN\_D\_P\_P030601\_from\_OPAN1  ASU\_page7\_PAN\_D\_P\_P030601\_to\_ASU\_2 | | | REAL | 168 | PFW326  ASU\_PAN\_D\_P\_P030601\_OPAN1 |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
| Настройка осмос 2 (насос Р02.05/02) | | | | | | |
| Индикация | | | | | | |
|  | ASU\_page8\_FIT020202\_from\_ASU\_2  ASU\_page8\_FIT020202\_to\_OPAN1 | | | real | 8 | PSW302  ASU\_FIT020202\_OPAN1 |
|  | ASU\_page8\_PT020202\_from\_ASU\_2  ASU\_page8\_PT020202\_to\_OPAN1 | | | real | 18 | PSW298  ASU\_PT020202\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page8\_counterPV020602\_from\_ASU\_2  ASU\_page8\_counterPV020602\_to\_OPAN1 | | | dword | 144 | PSW324  ASU\_counterPV020602\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page8\_statWordPV0206\_from\_ASU\_2  ASU\_page8\_statWordPV0206\_to\_OPAN1 | | | word | 146 | ASU\_statWordPV0206\_OPAN1  PSW316  5 – сигнал на запуск осмос2 |
|  |  | | |  |  |  |
|  | ASU\_page8\_daysOfWorkPV020602\_from\_ASU\_2  ASU\_page8\_daysOfWorkPV020602\_to\_OPAN1 | | | word | 152 | PSW326  ASU\_daysOfWorkPV020602\_OPAN1 |
|  | ASU\_page8\_hoursOfWorkPV020602\_from\_ASU\_2  ASU\_page8\_hoursOfWorkPV020602\_to\_OPAN1 | | | word | 153 | PSW327  ASU\_hoursOfWorkPV020602\_OPAN1 |
|  | ASU\_page8\_minutesOfWorkPV020602\_from\_ASU\_2  ASU\_page8\_minutesOfWorkPV020602\_to\_OPAN1 | | | word | 154 | PSW328  ASU\_minutesOfWorkPV020602\_OPAN1 |
|  | ASU\_page8\_secondsOfWorkPV020602\_from\_ASU\_2  ASU\_page8\_secondsOfWorkPV020602\_to\_OPAN1 | | | word | 155 | PSW329  ASU\_secondsOfWorkPV020602\_OPAN1 |
|  | ASU\_page8\_toNextStartPV020602timer\_from\_ASU\_2  ASU\_page8\_toNextStartPV020602timer\_to\_OPAN1 | | | word | 156 | PSW330  ASU\_toNextStartPV020602timer\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page8\_active\_KP\_F\_P030602\_from\_ASU\_2  ASU\_page8\_active\_KP\_F\_P030602\_to\_OPAN1 | | | REAL | 182 | PSW362  ASU\_active\_KP\_F\_P030602\_OPAN1 |
|  | ASU\_page8\_active\_I\_F\_P030602\_from\_ASU\_2  ASU\_page8\_active\_I\_F\_P030602\_to\_OPAN1 | | | REAL | 184 | PSW364  ASU\_active\_I\_F\_P030602\_OPAN1 |
|  | ASU\_page8\_active\_D\_F\_P030602\_from\_ASU\_2  ASU\_page8\_active\_D\_F\_P030602\_to\_OPAN1 | | | REAL | 186 | PSW366  ASU\_active\_D\_F\_P030602\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page8\_active\_KP\_P\_P030602\_from\_ASU\_2  ASU\_page8\_active\_KP\_P\_P030602\_to\_OPAN1 | | | REAL | 188 | PSW368  ASU\_active\_KP\_P\_P030602\_OPAN1 |
|  | ASU\_page8\_active\_I\_P\_P030602\_from\_ASU\_2  ASU\_page8\_active\_I\_P\_P030602\_to\_OPAN1 | | | REAL | 190 | PSW370  ASU\_active\_I\_P\_P030602\_OPAN1 |
|  | ASU\_page8\_active\_D\_P\_P030602\_from\_ASU\_2  ASU\_page8\_active\_D\_P\_P030602\_to\_OPAN1 | | | REAL | 192 | PSW372  ASU\_active\_D\_P\_P030602\_OPAN1 |
| Задание | | | | | | |
|  | ASU\_page8\_PAN\_KP\_F\_P030602\_from\_OPAN1  ASU\_page8\_PAN\_KP\_F\_P030602\_to\_ASU\_2 | | | REAL | 194 | PFW328  ASU\_PAN\_KP\_F\_P030602\_OPAN1 |
|  | ASU\_page8\_PAN\_I\_F\_P030602\_from\_OPAN1  ASU\_page8\_PAN\_I\_F\_P030602\_to\_ASU\_2 | | | REAL | 196 | PFW330  ASU\_PAN\_I\_F\_P030602\_OPAN1 |
|  | ASU\_page8\_PAN\_D\_F\_P030602\_from\_OPAN1  ASU\_page8\_PAN\_D\_F\_P030602\_to\_ASU\_2 | | | REAL | 198 | PFW332  ASU\_PAN\_D\_F\_P030602\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page8\_PAN\_KP\_P\_P030602\_from\_OPAN1  ASU\_page8\_PAN\_KP\_P\_P030602\_to\_ASU\_2 | | | REAL | 200 | PFW334  ASU\_PAN\_KP\_P\_P030602\_OPAN1 |
|  | ASU\_page8\_PAN\_I\_P\_P030602\_from\_OPAN1  ASU\_page8\_PAN\_I\_P\_P030602\_to\_ASU\_2 | | | REAL | 202 | PFW336  ASU\_PAN\_I\_P\_P030602\_OPAN1 |
|  | ASU\_page8\_PAN\_D\_P\_P030602\_from\_OPAN1  ASU\_page8\_PAN\_D\_P\_P030602\_to\_ASU\_2 | | | REAL | 204 | PFW338  ASU\_PAN\_D\_P\_P030602\_OPAN1 |
|  |  | | |  |  |  |
| Настройка уставок осмоса | | | | | | |
| Индикация | | | | | | |
|  | ASU\_page10\_FIT020201\_from\_ASU\_2  ASU\_page10\_FIT020201\_to\_OPAN1 | | | real | 6 | PSW294  ASU\_FIT020201\_OPAN1 |
|  | ASU\_page10\_FIT020202\_from\_ASU\_2  ASU\_page10\_FIT020202\_to\_OPAN1 | | | real | 8 | PSW302  ASU\_FIT020202\_OPAN1 |
|  | ASU\_page10\_PAN\_BMT\_Flow\_from\_ASU\_2  ASU\_page10\_PAN\_BMT\_Flow\_to\_OPAN1 | | | real | 206 | PSW332  ASU\_PAN\_BMT\_Flow\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page10\_currentValue\_PT0301startValue\_from\_ASU\_2  ASU\_page10\_currentValue\_PT0301startValue\_to\_OPAN1 | | | Real | 208 | PSW338  ASU\_currentValue\_PT0301startValue\_OPAN1 |
|  | ASU\_page10\_currentValue\_FIT0303setValue\_from\_ASU\_2  ASU\_page10\_currentValue\_FIT0303setValue\_to\_OPAN1 | | | Real | 210 | PSW340  ASU\_currentValue\_FIT0303setValue\_OPAN1 |
|  | ASU\_page10\_currentValue\_PT0302setMaxValue\_from\_ASU\_2  ASU\_page10\_currentValue\_PT0302setMaxValue\_to\_OPAN1 | | | Real | 212 | PSW342  ASU\_currentValue\_PT0302setMaxValue\_OPAN1 |
|  | ASU\_page10\_currentValue\_PT0303setMaxValue\_from\_ASU\_2  ASU\_page10\_currentValue\_PT0303setMaxValue\_to\_OPAN1 | | | Real | 214 | PSW344  ASU\_currentValue\_PT0303setMaxValue\_OPAN1 |
|  | ASU\_page10\_currentValue\_PT0304setMaxValue\_from\_ASU\_2  ASU\_page10\_currentValue\_PT0304setMaxValue\_to\_OPAN1 | | | Real | 216 | PSW346  ASU\_currentValue\_PT0304setMaxValue\_OPAN1 |
|  | ASU\_page10\_currentValue\_FIT0303\_SetCascade\_from\_ASU\_2  ASU\_page10\_currentValue\_FIT0303\_SetCascade\_to\_OPAN1 | | | Real | 218 | PSW348  ASU\_currentValue\_FIT0303\_SetCascade\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page10\_statWordPV0206\_from\_ASU\_2  ASU\_page10\_statWordPV0206\_to\_OPAN1 | | | word | 146 | ASU\_statWordPV0206\_OPAN1  PSW316  *Еще см.экран 6*  8 – режим работы каскад (true)/не каскад (false) |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
| Задание | | | | | | |
|  | ASU\_page10\_PT0301startValue\_from\_OPAN1  ASU\_page10\_PT0301startValue\_to\_ASU\_2 | | | REAL | 220 | PFW306  ASU\_PT0301startValue\_OPAN1 |
|  | ASU\_page10\_FIT0303setValue\_from\_OPAN1  ASU\_page10\_FIT0303setValue\_to\_ASU\_2 | | | REAL | 222 | PFW308  ASU\_FIT0303setValue\_OPAN1 |
|  | ASU\_page10\_PT0302setValue\_from\_OPAN1  ASU\_page10\_PT0302setValue\_to\_ASU\_2 | | | REAL | 224 | PFW310  ASU\_PT0302setValue\_OPAN1 |
|  | ASU\_page10\_PT0303setValue\_from\_OPAN1  ASU\_page10\_PT0303setValue\_to\_ASU\_2 | | | REAL | 226 | PFW312  ASU\_PT0303setValue\_OPAN1 |
|  | ASU\_page10\_PT0304setValue\_from\_OPAN1  ASU\_page10\_PT0304setValue\_to\_ASU\_2 | | | REAL | 228 | PFW314 |
|  | ASU\_page10\_FIT0303\_SetCascade\_from\_OPAN1  ASU\_page10\_FIT0303\_SetCascade\_to\_ASU\_2 | | | REAL | 230 | PFW340  ASU\_PT0304setValue\_OPAN1 |
|  |  | | |  |  |  |
|  | ASU\_page10\_setWordPV0206\_from\_OPAN1  ASU\_page10\_setWordPV0206\_to\_ASU\_2 | | | word | 157 | ASU\_setWordPV0206\_OPAN1  PSW1003 *(было PFW304)*  *еще см.в экране 6* |
|  |  | | |  |  | 12 - true = каскадная работа по расходу от БМТ и заданному коэффициенту |
|  |  | | |  |  | 13 - true = работа по своей уставке расхода FIT03.01/01, не каскад |
|  |  | | |  |  |  |
|  |  | | |  |  |  |
|  |  | | |  | 234 |  |
|  |  | | |  |  |  |
|  |  | | |  |  |  |