Отчёт по устройству

Мониторинг устройств непрерывного контроля и защиты высоковольтных вводов

Анализ неразрывности замеров и их корректности

Список данных файла с раскладкой для анализа

| Наименование | Тип по ед. из мерен ия | Датчи к | Напряжение | Код кратки й | Код полный | Код + напряжение |
|--------------|---------------------------------|------------|------------|-----------------|--------------------|--------------------|
| дата | other | overall | no_voltage | no_name | no_name | no_name_no_voltage |
| время | other | overall | no_voltage | no_name | no_name | no_name_no_voltage |
| U_A1 | other | A1 | HV | U | voltage_difference | U_HV |
| Ia_A1 | other | A1 | HV | Ia | power_active | Ia_HV |
| Ip_A1 | other | A1 | HV | Ir | power_reactive | Ir_HV |
| tan_A1 | other | A1 | HV | tg | tangent | tg_HV |
| C_A1 | other | A1 | HV | С | c_deviation | C_HV |
| dtan_A1 | other | A1 | HV | Δtg | tangent_delta | Δtg_HV |
| dC_A1 | other | A1 | HV | ΔC | c_delta | ΔC_HV |
| U_B1 | other | B1 | HV | U | voltage_difference | U_HV |
| Ia_B1 | other | B1 | HV | Ia | power_active | Ia_HV |
| Ip_B1 | other | B1 | HV | Ir | power_reactive | Ir_HV |
| tan_B1 | other | B1 | HV | tg | tangent | tg_HV |
| C_B1 | other | B1 | HV | С | c_deviation | C_HV |
| dtan_B1 | other | B1 | HV | Δtg | tangent_delta | Δtg_HV |
| dC_B1 | other | B1 | HV | ΔC | c_delta | ΔC_HV |
| U_C1 | other | C1 | HV | U | voltage_difference | U_HV |
| Ia_C1 | other | C1 | HV | Ia | power_active | Ia_HV |
| Ip_C1 | other | C1 | HV | Ir | power_reactive | Ir_HV |
| tan_C1 | other | C1 | HV | tg | tangent | tg_HV |
| C_C1 | other | C1 | HV | С | c_deviation | C_HV |
| dtan_C1 | other | C1 | HV | Δtg | tangent_delta | Δtg_HV |

| dC C1 other C1 HV ΔC c deta ΔC HV U_A2 other A2 MV U voltage_difference U_MV Ia_A2 other A2 MV Ia power_active Ia_MV Ip_A2 other A2 MV If power_active Ia_MV CA2 other A2 MV C c_deviation C_MV C_A2 other A2 MV A5 tangent_delta A5_MV dC_A2 other A2 MV A5 c_deviation C_MV U_B2 other A2 MV A5 c_deviation U_MV Ia_B2 other B2 MV If power_active If_MV Ia_B2 other B2 MV U value_difference U_MV Ia_B2 other B2 MV U C_deviation C_MV C_B2 other B2 MV | | | | | | i e | |
|--|--------------|-------|---------|------------|---------|-----------------------|--------------------|
| Other A2 MV Ia power_active Ia_MV Ia_M power_active Ia_MV Ia_M power_active Ia_MV Ia | dC_C1 | other | C1 | HV | ΔC | c_delta | ΔC_HV |
| The Parameter Figure Fi | U_A2 | other | A2 | MV | U | voltage_difference | U_MV |
| tan_A2 other A2 MV tg tangent tg_MV C_A2 other A2 MV C c_deviation C_MV dtan A2 other A2 MV Δtg tangent delta Δtg MV dC_A2 other A2 MV L voltage_difference U_MV la_B2 other B2 MV Ia power_active II_MV la_B2 other B2 MV Ir power_active Ir_MV tan_B2 other B2 MV tg tangent tg_MV C_B2 other B2 MV Atg tangent delta Δtg MV dC_B2 other B2 MV AC c_deviation Δc_MV U_C2 other B2 MV AC c_delta Δc_MV U_C2 other C2 MV Ia power_active Ia_MV I_C2 other C2 MV | Ia_A2 | other | A2 | MV | Ia | power_active | Ia_MV |
| C_A2 other A2 MV C c_deviation C_MV dtan_A2 other A2 MV Δtg tangent_delta Δtg_MV dC_A2 other A2 MV ΔC c_delta ΔC_MV U_B2 other B2 MV U voltage_difference U_MV Ia_B2 other B2 MV Ia power_active Ia_MV Ip_B2 other B2 MV Ir power_reactive Ir_MV tan_B2 other B2 MV tg tangent tg_MV C_B2 other B2 MV C c_deviation C_MV dLa_B2 other B2 MV Δtg tangent_delta Δtg_MV dC_B2 other B2 MV Δtg tangent_delta Δtg_MV dC_B2 other C2 MV U voltage_difference U_MV I_G_C2 other C2 | Ip_A2 | other | A2 | MV | Ir | power_reactive | Ir_MV |
| dan_AZ other A2 MV Atg tangent_delta Atg_MV dC A2 other A2 MV AC c delta AC_MV U_BZ other B2 MV U voltage_difference U_MV Ia_B2 other B2 MV Ia power_active Ia_MV Ip_B2 other B2 MV Ir power_reactive Ir_MV tan_B2 other B2 MV tg tangent tg_MV C B2 other B2 MV C c deviation C MV dtan_B2 other B2 MV AC c_delta Atg_MV dC_B2 other B2 MV AC c_delta AC_MV U_C2 other B2 MV Ia power_active Ia_MV Ip_C2 other C2 MV Ia power_active Ia_MV Ip_C2 other C2 MV | tan_A2 | other | A2 | MV | tg | tangent | tg_MV |
| dC A2 other A2 MV ΔC c_delta ΔC MV U_B2 other B2 MV U voltage_difference U_MV Ia_B2 other B2 MV Ia power_active Ia_MV Ip_B2 other B2 MV Ir power_eactive Ir_MV tan_B2 other B2 MV tg tangent tg_MV C_B2 other B2 MV C_c_deviation C_MV dtan_B2 other B2 MV Δtg tangent_delta Δtg_MV dC_B2 other B2 MV ΔC c_delta ΔC_MV dC_B2 other B2 MV ΔC c_delta ΔC_MV U_C2 other C2 MV Ir power_active U_MV Ia_C2 other C2 MV Ir power_active Ir_MV Ip_C2 other C2 MV Ir_MV | C_A2 | other | A2 | MV | С | c_deviation | C_MV |
| U_B2 other B2 MV U voltage_difference U_MV Ia_B2 other B2 MV Ia power_active Ia_MV Ip_B2 other B2 MV Ir power_reactive Ir_MV tan_B2 other B2 MV tangent tg_MV C_B2 other B2 MV Cdeviation C_MV dtan_B2 other B2 MV Δtg tangent_delta Δtg_MV dC_B2 other B2 MV ΔC c_delta ΔC_MV U_C2 other B2 MV ΔC c_delta ΔC_MV U_C2 other C2 MV Ia power_active Ia_MV U_C2 other C2 MV U voltage_difference U_MV U_C2 other C2 MV Ir power_active Ir_MV Ia_C2 other C2 MV Ir powe | dtan_A2 | other | A2 | MV | Δtg | tangent_delta | Δtg_MV |
| Ia B2 other B2 MV Ia power_active Ia_MV Ip_B2 other B2 MV Ir power_reactive Ir_MV tan_B2 other B2 MV tg tangent tg_MV C_B2 other B2 MV C c_deviation C_MV dtan_B2 other B2 MV Δtg tangent_delta Δtg_MV dC_B2 other B2 MV ΔC c_delta ΔC_MV U_C2 other B2 MV ΔC c_delta ΔC_MV U_C2 other C2 MV Ir power_active U_MV Ia_C2 other C2 MV Ir power_active Ir_MV Ia_C2 other C2 MV Ir power_active Ir_MV Ia_C2 other C2 MV Ir_M power_active Ir_MV Ia_C2 other C2 MV | dC_A2 | other | A2 | MV | ΔC | c_delta | ΔC_MV |
| Ip_B2 other B2 MV Ir power_reactive Ir_MV tan_B2 other B2 MV tg tangent tg_MV C_B2 other B2 MV C c_deviation C_MV dtan_B2 other B2 MV Δtg tangent_delta Δtg_MV dC_B2 other B2 MV ΔC c_delta Δtg_MV U_C2 other B2 MV ΔC c_delta ΔC_MV Ia_C2 other C2 MV Ia power_active Ia_MV Ip_C2 other C2 MV Ir power_reactive Ir_MV Ip_C2 other C2 MV Ir power_reactive Ir_MV Ip_C2 other C2 MV Ir power_reactive Ir_MV Ip_C2 other C2 MV Ir_M It_MV It_MV C_C2 other C2 MV | U_B2 | other | B2 | MV | U | voltage_difference | U_MV |
| tan_B2 other B2 MV tg tangent tg_MV C_B2 other B2 MV C c_deviation C_MV dtan_B2 other B2 MV \(\text{\text{\text{Atg}}} \) tangent_delta \(\text{\t | Ia_B2 | other | B2 | MV | Ia | power_active | Ia_MV |
| C_B2 other B2 MV C c_deviation C_MV dtan_B2 other B2 MV Δtg tangent_delta Δtg_MV dC_B2 other B2 MV ΔC c_delta ΔC_MV U_C2 other C2 MV U voltage_difference U_MV Ia_C2 other C2 MV Ia power_active Ia_MV Ip_C2 other C2 MV Ir power_reactive Ir_MV tan_C2 other C2 MV tg tangent tg_MV C_C2 other C2 MV C c_deviation C_MV dtan_C2 other C2 MV Δtg tangent_delta Δtg_MV dC_C2 other C2 MV Δtg tangent_delta Δtg_MV dC_C2 other C2 MV Δtg tangent_delta Δtg_MV dC_C2 other C2 MV Δtg temperature_of_air tair_no_voltage dc_C2 othe | Ip_B2 | other | B2 | MV | Ir | power_reactive | Ir_MV |
| dtan_B2 other B2 MV Δtg tangent_delta Δtg_MV dC_B2 other B2 MV ΔC c_delta ΔC_MV U_C2 other C2 MV U voltage_difference U_MV Ia_C2 other C2 MV Ia power_active Ia_MV Ip_C2 other C2 MV Ir power_reactive Ir_MV tan_C2 other C2 MV tg tangent tg_MV C_C2 other C2 MV C c_deviation C_MV dtan_C2 other C2 MV Δtg tangent_delta Δtg_MV dtan_C2 other C2 MV Δtg temperature_of_air tair_no_voltage Tdevice <td>tan_B2</td> <td>other</td> <td>B2</td> <td>MV</td> <td>tg</td> <td>tangent</td> <td>tg_MV</td> | tan_B2 | other | B2 | MV | tg | tangent | tg_MV |
| dC_B2 other B2 MV ΔC c_delta ΔC_MV U_C2 other C2 MV U voltage_difference U_MV Ia_C2 other C2 MV Ia power_active Ia_MV Ip_C2 other C2 MV Ir power_reactive Ir_MV tan_C2 other C2 MV tg tangent tg_MV C_C2 other C2 MV Δtg tangent_delta Δtg_MV dC_C2 other C2 MV ΔC c_delta ΔC_MV Tair other Overall no_voltage tair temperature_of_air tair_no_voltage Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name | C_B2 | other | B2 | MV | С | c_deviation | C_MV |
| U_C2 other C2 MV U voltage_difference U_MV Ia_C2 other C2 MV Ia power_active Ia_MV Ip_C2 other C2 MV Ir power_reactive Ir_MV tan_C2 other C2 MV tangent tg_MV C_C2 other C2 MV C c_deviation C_MV dtan_C2 other C2 MV Δtg tangent_delta Δtg_MV dC_C2 other C2 MV ΔC c_delta ΔC_MV Tair other overall no_voltage tair temperature_of_air tair_no_voltage Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name_no_voltage T4 other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage </td <td>dtan_B2</td> <td>other</td> <td>B2</td> <td>MV</td> <td>Δtg</td> <td>tangent_delta</td> <td>Δtg_MV</td> | dtan_B2 | other | B2 | MV | Δtg | tangent_delta | Δtg_MV |
| Ia_C2 other C2 MV Ia power_active Ia_MV Ip_C2 other C2 MV Ir power_reactive Ir_MV tan_C2 other C2 MV tg tangent tg_MV C_C2 other C2 MV Δtg tangent_delta Δtg_MV dc_C2 other C2 MV ΔC c_delta ΔC_MV Tair other overall no_voltage tair temperature_of_air tair_no_voltage Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name_no_voltage T4 other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | dC_B2 | other | B2 | MV | ΔC | c_delta | ΔC_MV |
| Ip_C2 other C2 MV Ir power_reactive Ir_MV tan_C2 other C2 MV tg tangent tg_MV C_C2 other C2 MV C c_deviation C_MV dtan_C2 other C2 MV Δtg tangent_delta Δtg_MV dC_C2 other C2 MV ΔC c_delta ΔC_MV Tair other overall no_voltage tair temperature_of_air tair_no_voltage Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name_no_voltage T4 other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | U_C2 | other | C2 | MV | U | voltage_difference | U_MV |
| tan_C2 other C2 MV tg tangent tg_MV C_C2 other C2 MV C c_deviation C_MV dtan_C2 other C2 MV Δtg tangent_delta Δtg_MV dC_C2 other C2 MV ΔC c_delta ΔC_MV Tair other overall no_voltage tair temperature_of_air tair_no_voltage Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name_no_voltage T4 other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | Ia_C2 | other | C2 | MV | Ia | power_active | Ia_MV |
| C_C2 other C2 MV C c_deviation C_MV dtan_C2 other C2 MV Δtg tangent_delta Δtg_MV dC_C2 other C2 MV ΔC c_delta ΔC_MV Tair other overall no_voltage tair temperature_of_air tair_no_voltage Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name_no_voltage T4 other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | Ip_C2 | other | C2 | MV | Ir | power_reactive | Ir_MV |
| dtan_C2 other C2 MV Δtg tangent_delta Δtg_MV dC_C2 other C2 MV ΔC c_delta ΔC_MV Tair other overall no_voltage tair temperature_of_air tair_no_voltage Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name_no_voltage T4 other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | tan_C2 | other | C2 | MV | tg | tangent | tg_MV |
| dC_C2 other C2 MV ΔC c_delta ΔC_MV Tair other overall no_voltage tair temperature_of_air tair_no_voltage Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name_no_voltage T4 other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | C_C2 | other | C2 | MV | С | c_deviation | C_MV |
| Tair other overall no_voltage tair temperature_of_air tair_no_voltage Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name no_name_no_voltage T4 other overall no_voltage no_name no_name no_name no_name_no_voltage Tcpu other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | dtan_C2 | other | C2 | MV | Δtg | tangent_delta | Δtg_MV |
| Tdevice other overall no_voltage tdev temperature_of_device tdev_no_voltage F other overall no_voltage no_name no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name no_name_no_voltage T4 other overall no_voltage no_name no_name no_name no_name_no_voltage Tcpu other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | dC_C2 | other | C2 | MV | ΔC | c_delta | ΔC_MV |
| F other overall no_voltage no_name no_name no_name_no_voltage T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name no_name_no_voltage T4 other overall no_voltage no_name no_name no_name no_name_no_voltage Tcpu other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | Tair | other | overall | no_voltage | tair | temperature_of_air | tair_no_voltage |
| T2 other overall no_voltage no_name no_name no_name_no_voltage T3 other overall no_voltage no_name no_name no_name_no_voltage T4 other overall no_voltage no_name no_name no_name no_name_no_voltage Tcpu other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | Tdevice | other | overall | no_voltage | tdev | temperature_of_device | tdev_no_voltage |
| T3 other overall no_voltage no_name no_name no_name_no_voltage T4 other overall no_voltage no_name no_name no_name no_name_no_voltage Tcpu other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | F | other | overall | no_voltage | no_name | no_name | no_name_no_voltage |
| T4 other overall no_voltage no_name no_name no_name_no_voltage Tcpu other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | T2 | other | overall | no_voltage | no_name | no_name | no_name_no_voltage |
| Tcpu other overall no_voltage tcpu temperature_of_cpu tcpu_no_voltage | T3 | other | overall | no_voltage | no_name | no_name | no_name_no_voltage |
| | T4 | other | overall | no_voltage | no_name | no_name | no_name_no_voltage |
| Дата и время other overall no_voltage time time_of_measure time_no_voltage | Тсри | other | overall | no_voltage | tcpu | temperature_of_cpu | tcpu_no_voltage |
| | Дата и время | other | overall | no_voltage | time | time_of_measure | time_no_voltage |

Подсчёт общего количества записей Общее число записей в журнале измерений составило 302305

Анализ периодичности и неразрывности измерений

| Строка в БД | Дата | Время | Дата след. | Время след. | Разница |
|-------------|----------|-------|------------|----------------|-----------------|
| 236 | 21.06.22 | 16.26 | 21.06.22 | 16.26 | 0 days 00:00:33 |
| 239 | 21.06.22 | 16.28 | 21.06.22 | 16.30 | 0 days 00:01:31 |
| 10590 | 28.06.22 | 21.00 | 28.06.22 | 21.00 | 0 days 00:00:03 |
| 13650 | 30.06.22 | 23.59 | 01.07.22 | 00.01 | 0 days 00:02:00 |
| 32878 | 14.07.22 | 08.28 | 14.07.22 | 08.28 | 0 days 00:00:33 |
| 32879 | 14.07.22 | 08.28 | 14.07.22 | 08.29 | 0 days 00:00:27 |
| 32880 | 14.07.22 | 08.29 | 14.07.22 | 08.29 | 0 days 00:00:33 |
| 32881 | 14.07.22 | 08.29 | 14.07.22 | 08.30 | 0 days 00:00:27 |
| 32882 | 14.07.22 | 08.30 | 14.07.22 | 08.30 | 0 days 00:00:33 |
| 32884 | 14.07.22 | 08.31 | 14.07.22 | 08.32 | 0 days 00:00:44 |
| 32979 | 14.07.22 | 10.06 | 14.07.22 | 10.33 | 0 days 00:27:00 |
| 39000 | 18.07.22 | 14.53 | 18.07.22 | 14.54 | 0 days 00:00:44 |
| 58266 | 31.07.22 | 23.59 | 01.08.22 | 00.01 | 0 days 00:02:00 |
| 102905 | 31.08.22 | 23.59 | 01.09.22 | 00.01 | 0 days 00:02:00 |
| 146104 | 30.09.22 | 23.59 | 01.10.22 | 00.01 | 0 days 00:02:00 |
| 181514 | 25.10.22 | 14.10 | 25.10.22 | 14.13 | 0 days 00:03:00 |
| 190741 | 31.10.22 | 23.59 | 01.11.22 | 00.01 | 0 days 00:02:00 |
| 206005 | 11.11.22 | 14.24 | 11.11.22 | 14.24 | 0 days 00:00:09 |
| 206006 | 11.11.22 | 14.24 | 11.11.22 | 14.25 | 0 days 00:00:51 |
| 206007 | 11.11.22 | 14.25 | 11.11.22 | 14.25 | 0 days 00:00:09 |
| 206008 | 11.11.22 | 14.25 | 11.11.22 | 14.26 | 0 days 00:00:51 |
| 206009 | 11.11.22 | 14.26 | 11.11.22 | 14.26 | 0 days 00:00:09 |
| 206010 | 11.11.22 | 14.26 | 11.11.22 | 14.27 | 0 days 00:00:51 |
| 206011 | 11.11.22 | 14.27 | 11.11.22 | 14.27 | 0 days 00:00:09 |
| 206012 | 11.11.22 | 14.27 | 11.11.22 | 14.28 | 0 days 00:00:51 |

| 206013 11.11.22 14.28 11.11.22 14.28 0 days 00:00 206014 11.11.22 14.28 11.11.22 14.29 0 days 00:00 206015 11.11.22 14.29 11.11.22 14.29 0 days 00:00 206016 11.11.22 14.29 11.11.22 14.30 0 days 00:00 206017 11.11.22 14.30 11.11.22 14.31 0 days 00:00 206018 11.11.22 14.31 11.11.22 14.31 0 days 00:00 206019 11.11.22 14.31 11.11.22 14.31 0 days 00:00 | 0:51 0:09 0:51 0:09 |
|---|------------------------------|
| 206015 11.11.22 14.29 11.11.22 14.29 0 days 00:00 206016 11.11.22 14.29 11.11.22 14.30 0 days 00:00 206017 11.11.22 14.30 11.11.22 14.30 0 days 00:00 206018 11.11.22 14.30 11.11.22 14.31 0 days 00:00 206019 11.11.22 14.31 11.11.22 14.31 0 days 00:00 | 0:09 0:51 0:09 |
| 206016 11.11.22 14.29 11.11.22 14.30 0 days 00:00 206017 11.11.22 14.30 11.11.22 14.30 0 days 00:00 206018 11.11.22 14.30 11.11.22 14.31 0 days 00:00 206019 11.11.22 14.31 11.11.22 14.31 0 days 00:00 | 0:51 0:09 0:51 |
| 206017 11.11.22 14.30 11.11.22 14.30 0 days 00:00 206018 11.11.22 14.30 11.11.22 14.31 0 days 00:00 206019 11.11.22 14.31 11.11.22 14.31 0 days 00:00 |):09 |
| 206018 11.11.22 14.30 11.11.22 14.31 0 days 00:00 206019 11.11.22 14.31 11.11.22 14.31 0 days 00:00 |):51 |
| 206019 11.11.22 14.31 11.11.22 14.31 0 days 00:00 | |
| |):09 |
| | |
| 206020 11.11.22 14.31 11.11.22 14.32 0 days 00:00 |):51 |
| 206021 11.11.22 14.32 11.11.22 14.32 0 days 00:00 |):09 |
| 206022 11.11.22 14.32 11.11.22 14.33 0 days 00:00 |):51 |
| 206023 11.11.22 14.33 11.11.22 14.33 0 days 00:00 |):09 |
| 206024 11.11.22 14.33 11.11.22 14.34 0 days 00:00 |):51 |
| 206025 11.11.22 14.34 11.11.22 14.34 0 days 00:00 |):09 |
| 206026 11.11.22 14.34 11.11.22 14.35 0 days 00:00 |):51 |
| 206027 11.11.22 14.35 11.11.22 14.35 0 days 00:00 |):09 |
| 206028 11.11.22 14.35 11.11.22 14.36 0 days 00:00 |):51 |
| 206029 11.11.22 14.36 11.11.22 14.36 0 days 00:00 |):09 |
| 206030 11.11.22 14.36 11.11.22 14.37 0 days 00:00 |):51 |
| 206031 11.11.22 14.37 11.11.22 14.37 0 days 00:00 |):09 |
| 206032 11.11.22 14.37 11.11.22 14.38 0 days 00:00 |):51 |
| 206033 11.11.22 14.38 11.11.22 14.38 0 days 00:00 |):09 |
| 206034 11.11.22 14.38 11.11.22 14.39 0 days 00:00 |):51 |
| 206035 11.11.22 14.39 11.11.22 14.39 0 days 00:00 |):09 |
| 206036 11.11.22 14.39 11.11.22 14.40 0 days 00:00 |):51 |
| 206037 11.11.22 14.40 11.11.22 14.40 0 days 00:00 |):09 |
| 206038 11.11.22 14.40 11.11.22 14.41 0 days 00:00 |):51 |
| 206039 11.11.22 14.41 11.11.22 14.41 0 days 00:00 |):09 |
| 206040 11.11.22 14.41 11.11.22 14.42 0 days 00:00 |):51 |
| 206041 11.11.22 14.42 11.11.22 14.42 0 days 00:00 |):09 |
| 206042 11.11.22 14.42 11.11.22 14.43 0 days 00:00 |):51 |
| 206043 11.11.22 14.43 11.11.22 14.43 0 days 00:00 |):09 |
| 206044 11.11.22 14.43 11.11.22 14.44 0 days 00:00 |):51 |

| 206045 | 11.11.22 | 14.44 | 11.11.22 | 14.44 | 0 days 00:00:09 |
|--------|----------|-------|----------|-------|-----------------|
| 206133 | 11.11.22 | 16.11 | 11.11.22 | 16.14 | 0 days 00:03:00 |
| 233959 | 30.11.22 | 23.59 | 01.12.22 | 00.01 | 0 days 00:02:00 |
| 278598 | 31.12.22 | 23.59 | 01.01.23 | 00.01 | 0 days 00:02:00 |

Анализ периодов массовой некорректности измерений

| Строка в БД | Дата начал а замеров | Время начал а | Дата оконч ания замер ов | Время оконч ания | Количество некорректных замеров |
|-------------|-------------------------|---------------------|--------------------------------|------------------------|---------------------------------------|
| 0 | 21.06.22 | 12.30 | 21.06.22 | 16.28 | 240 |
| 240 | 21.06.22 | 16.30 | 08.11.22 | 18.00 | 10592 |
| 10832 | 08.11.22 | 18.01 | 10.11.22 | 18.56 | 2936 |

Анализ трендов и средних показателей

Анализ распределения значений

Средние значения по ΔC :

Среднее по модулю по dC_A1 составило 2.085

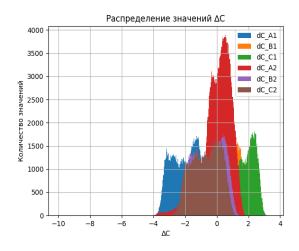
Среднее по модулю по dC_B1 составило 0.785

Среднее по модулю по dC_C1 составило 1.574

Среднее по модулю по dC_A2 составило 0.645

Среднее по модулю по dC_B2 составило 0.848

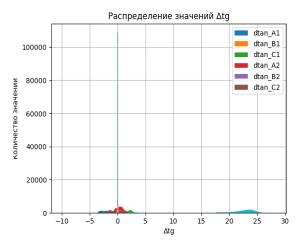
Среднее по модулю по dC_C2 составило 0.885



Средние значения по Δtg :

Среднее по модулю по dtan_A1 составило 0.079

Среднее по модулю по dtan_B1 составило 0.037 Среднее по модулю по dtan_C1 составило 0.033 Среднее по модулю по dtan_A2 составило 7.815 Среднее по модулю по dtan_B2 составило 0.032 Среднее по модулю по dtan_C2 составило 0.031



Средние значения по Іа:

Среднее по Іа_А1 составило -0.439

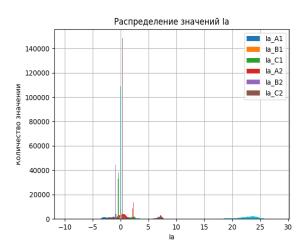
Среднее по Іа_В1 составило 2.222

Среднее по Іа_С1 составило -0.856

Среднее по Іа_А2 составило 2.559

Среднее по Іа_В2 составило 0.358

Среднее по Іа_С2 составило 0.413



Средние значения по Ir:

Среднее по Ір_А1 составило 74.242

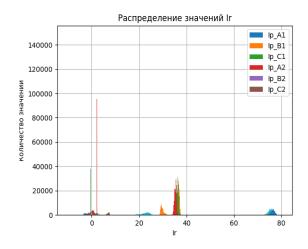
Среднее по Ір_В1 составило 75.304

Среднее по Ір_С1 составило 76.36

Среднее по Ір_А2 составило 33.983

Среднее по Ір_В2 составило 35.671

Среднее по Ір_С2 составило 34.909



Средние значения по U:

Среднее по U_A1 составило 296.827

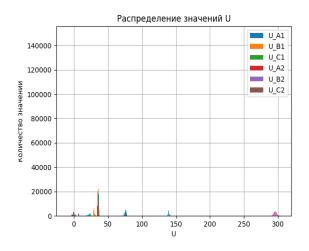
Среднее по U_B1 составило 295.083

Среднее по U_C1 составило 295.771

Среднее по U_A2 составило 139.371

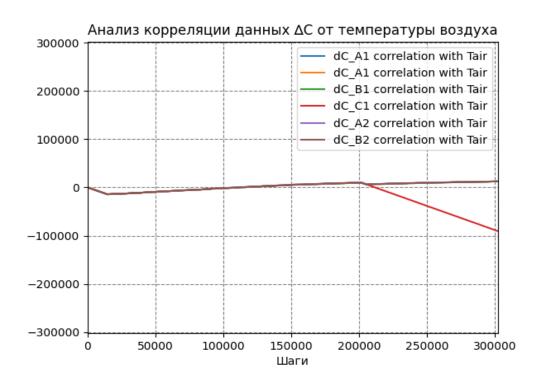
Среднее по U_B2 составило 139.285

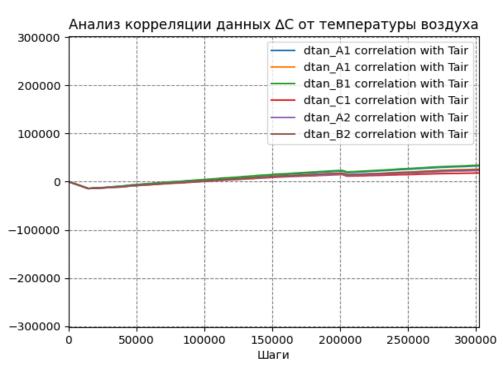
Среднее по U_C2 составило 139.245

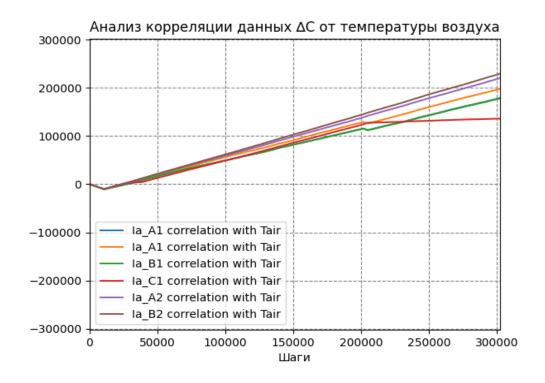


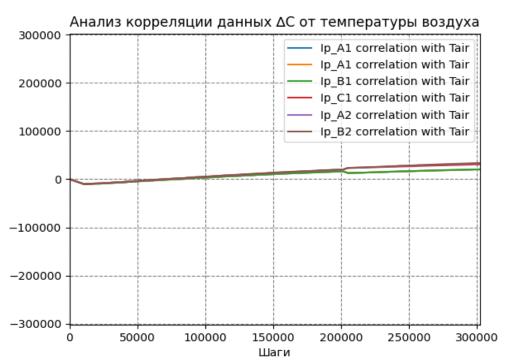
Анализ корреляций

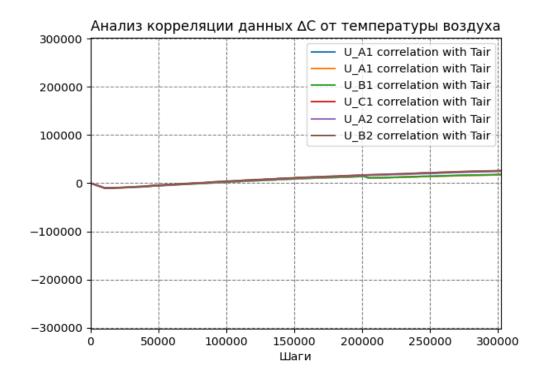
(чем более явная корреляция, тем больше отклонение графа от оси шагов: вверх для прямой корреляции, вниз - для обратной)







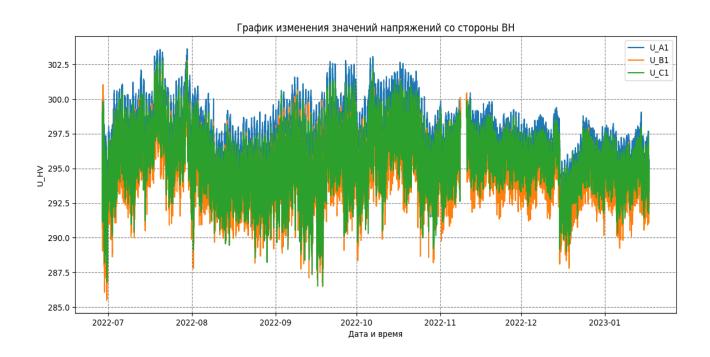




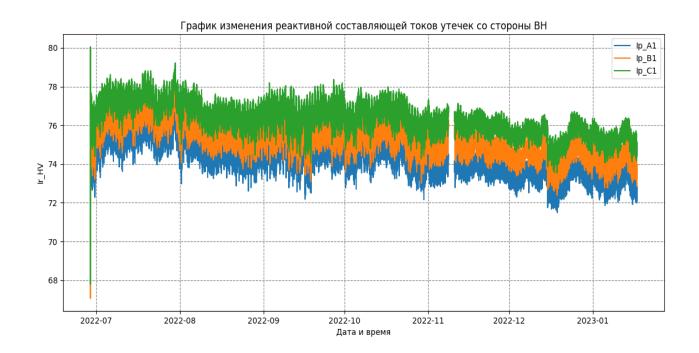
Анализ срабатываний предупредительной и аварийной сигнализации

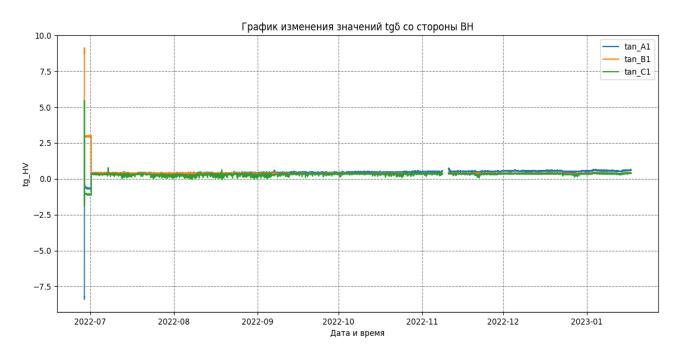
В обработке

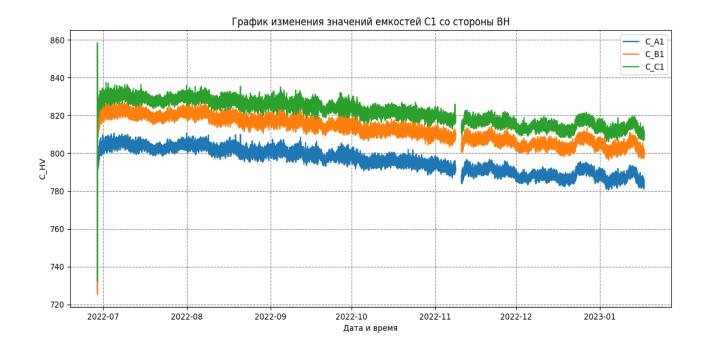
Анализ значений параметров высоковольтных вводов в фазах A, B и C со стороны высокого напряжения

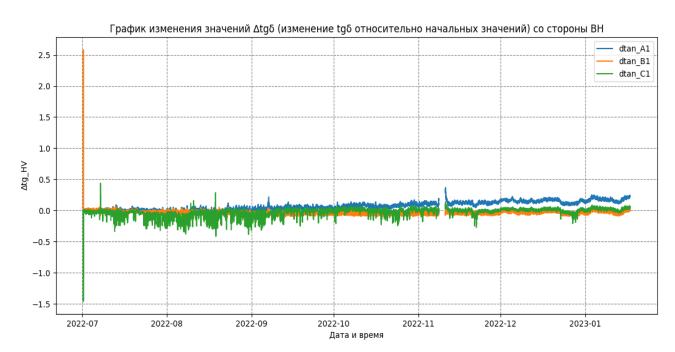


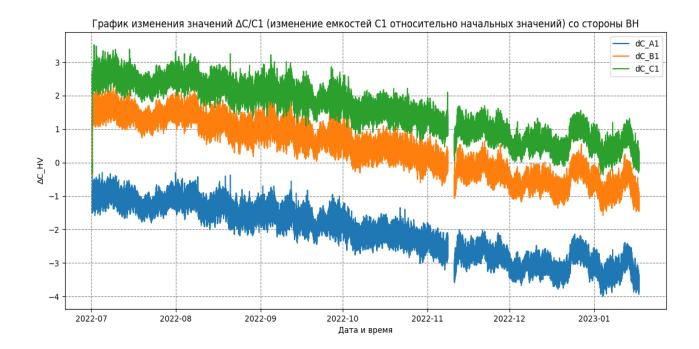












Анализ значений параметров высоковольтных вводов в фазах A, B и C со стороны среднего напряжения

