```
PID Algorithm
   # p
   # i
   # d
   # max
   # min
   + PID Algorithm()
   + PID_Algorithm()
   + compute()
   + set P()
   + set I()
   + set D()
   + set PID()
   + get_P()
   + get_l()
   + get D()
   + set Limits()
   + get_Upper()
   + get Lower()
   + ~PID Algorithm()
  FilteredDiscrete PID
- N
- I output
- II output
- I err
- II err
+ FilteredDiscrete PID()
+ FilteredDiscrete
                   PID()
+ FilteredDiscrete PID()
+ FilteredDiscrete
                   PID()
+ operator=()
+ operator=()
+ ~FilteredDiscrete PID()
+ set N()
+ compute()
```